



Memphis State University



Bulletin

Catalog Issue 1964-1965

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Inquiries will receive prompt attention if addressed to the administrative officers indicated below, at Memphis State University, Memphis, Tennessee 38111.

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ALUMNI AFFAIRS	<i>The Alumni Secretary</i>
DEGREE REQUIREMENTS	<i>Dean of the school in which the degree is offered</i>
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HOUSING (WOMEN)	<i>Dean of Women</i>
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SUMMER SCHOOL	<i>Director, The Summer Session</i>
TRANSCRIPTS OF CREDITS	<i>Dean of Admissions</i>
VETERANS' AFFAIRS	<i>Coordinator of Veterans' Affairs</i>

BULLETIN OF MEMPHIS STATE UNIVERSITY

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1964-65

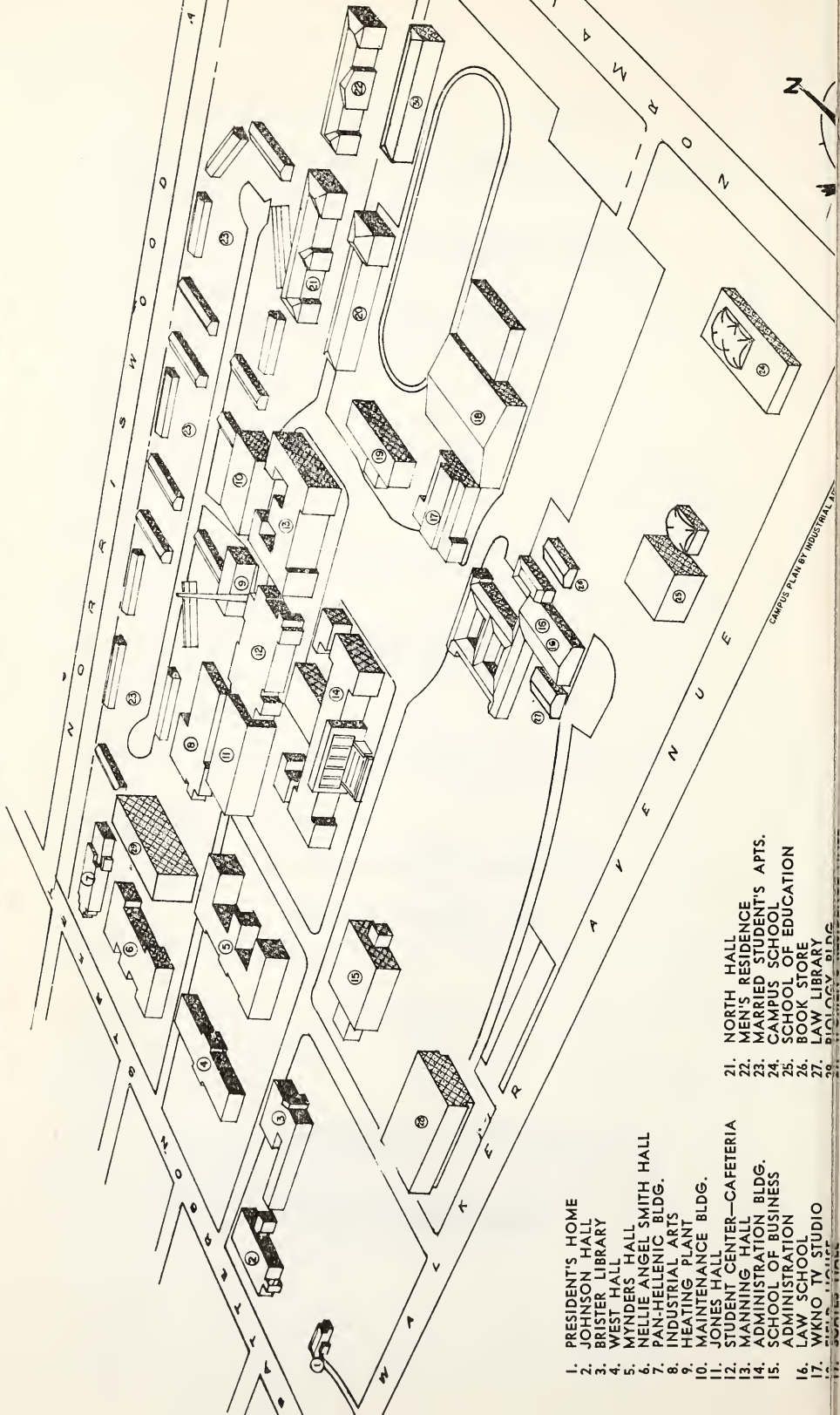
*The Fifty-third Session will open
Friday, September 18, 1964*

MEMPHIS, TENNESSEE

FEBRUARY, 1964

Memphis State University Campus

1. PRESIDENT'S HOME
2. JOHNSON HALL
3. BRISTER LIBRARY
4. WEST HALL
5. MYNDERS HALL
6. NELLIE ANGEL SMITH HALL
7. PAN-HELLENIC BLDG.
8. INDUSTRIAL ARTS
9. HEATING PLANT
10. MAINTENANCE BLDG.
11. JONES HALL
12. STUDENT CENTER—CAFETERIA
13. MANNING HALL
14. ADMINISTRATION BLDG.
15. SCHOOL OF BUSINESS
16. ADMINISTRATION
17. LAW SCHOOL
18. WKNO TV STUDIO
19. HAYDEN HALL
20. MEN'S RESIDENCE HALL
21. NORTH HALL
22. MEN'S RESIDENCE
23. MARRIED STUDENT'S APTS.
24. CAMPUS SCHOOL
25. SCHOOL OF EDUCATION
26. BOOK STORE
27. LAW LIBRARY
28. BIOLOGY BLDG.
29. MEN'S RESIDENCE HALL
30. HAYDEN HALL



CAMPUS PLAZA

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1964													
SEPTEMBER							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5	1	2	3	4	5	6	7
6	7	8	9	10	11	12	8	9	10	11	12	13	14
13	14	15	16	17	18	19	15	16	17	18	19	20	21
20	21	22	23	24	25	26	22	23	24	25	26	17	28
27	28	29	30				29	30					
OCTOBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3			1	2	3	4	5
4	5	6	7	8	9	10	6	7	8	9	10	11	12
11	12	13	14	15	16	17	13	14	15	16	17	18	19
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17	18	19	20	21	22	23	16	17	18	19	20	21	22
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14	15	16	17	18	19	20	13	14	15	16	17	18	19
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28							27	28	29	30			
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14	15	16	17	18	19	20	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28	29	30	31
APRIL							AUGUST						
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11	12	13	14	15	16	17	8	9	10	11	12	13	14
18	19	20	21	22	23	24	15	16	17	18	19	20	21
25	26	27	28	29	30		22	23	24	25	26	17	28
							29	30	31				

THE UNIVERSITY CALENDAR

1964-1965

FIRST SEMESTER

SEPTEMBER 18, FRIDAY:	Meeting of the University faculty, 9:00 A.M., Auditorium.
SEPTEMBER 19, SATURDAY:	Meetings of the University faculty by schools and departments, 9:00 A.M.
SEPTEMBER 20, SUNDAY:	Dormitories will open at noon.
SEPTEMBER 21, MONDAY:	Orientation program for beginning freshman women 9:00 A.M.
SEPTEMBER 22, TUESDAY:	Orientation program for beginning freshman men—9:00 A.M.
SEPTEMBER 22, TUESDAY:	Orientation program for transfer students—2:00 P.M.
SEPTEMBER 23, WEDNESDAY:	Registration of beginning freshmen.
SEPTEMBER 24, THURSDAY and	Registration of returning freshmen, sophomores, juniors, seniors and transfer students.
SEPTEMBER 25, FRIDAY:	
SEPTEMBER 26, SATURDAY:	Registration, The Graduate School, 9:00 A.M.
SEPTEMBER 28, MONDAY:	Classes meet as scheduled.
SEPTEMBER 28, MONDAY:	Orientation for new Evening Division students, 7:00 P.M.
SEPTEMBER 29, TUESDAY:	Registration, The Evening Division, 5:00 P.M.
OCTOBER 2, FRIDAY:	Last day for adding courses.
OCTOBER 9, FRIDAY:	Holiday. West Tennessee Education Association.
OCTOBER 23, FRIDAY:	Last day for making application to dean of appropriate school for degrees to be conferred in January, 1965.
OCTOBER 30, FRIDAY:	Last day for dropping courses.
NOVEMBER 11, WEDNESDAY:	Holiday. Veterans' Day.
NOVEMBER 23, MONDAY:	Mid-semester deficiency reports due in Records Office.
NOVEMBER 26, THURSDAY through	
NOVEMBER 29, SUNDAY: (inclusive)	Thanksgiving recess.

DECEMBER 1, TUESDAY:	English proficiency examination.
DECEMBER 19, SATURDAY <i>through</i>	
JANUARY 3, SUNDAY: <i>(inclusive)</i>	Christmas recess.
JANUARY 22, FRIDAY:	Final examinations begin.
JANUARY 30, SATURDAY:	Commencement, 10:00 A.M.

SECOND SEMESTER

FEBRUARY 6, SATURDAY:	Registration, The Graduate School, 9:00 A.M.
FEBRUARY 7, SUNDAY:	Dormitories will open at noon.
FEBRUARY 8, MONDAY:	Registration for current students and for former students who complete admission requirements by January 16.
FEBRUARY 9, TUESDAY:	Orientation for beginning freshmen and transfer students, 8:00 A.M.
FEBRUARY 9, TUESDAY:	Registration for current and former students continued, 9:00 A.M. to 12:00 noon.
FEBRUARY 9, TUESDAY:	Registration for beginning freshmen and transfer students, 1:00 P.M.
FEBRUARY 9, TUESDAY:	Registration, The Evening Division, 6:00 P.M.
FEBRUARY 10, WEDNESDAY:	Classes meet as scheduled.
FEBRUARY 16, TUESDAY:	Last day for adding courses.
MARCH 12, FRIDAY:	Last day for making application to dean of appropriate school for degrees to be conferred in May, 1965.
MARCH 16, TUESDAY:	Last day for dropping courses.
MARCH 29, MONDAY:	Mid-term deficiency reports due in Records Office.
MARCH 30, TUESDAY:	English proficiency examination.
APRIL 15, THURSDAY <i>through</i>	
APRIL 18, SUNDAY: <i>(inclusive)</i>	Easter recess.
MAY 21, FRIDAY:	Final examinations begin.
MAY 29, SATURDAY:	Commencement, 10:00 A.M.

THE SUMMER SESSION, 1965

FIRST TERM

JUNE 6, SUNDAY:	Dormitories will open at noon.
JUNE 7, MONDAY:	Registration for current and former students only.
JUNE 7, MONDAY:	Registration for Graduate Students at 2:00 P.M.
JUNE 8, TUESDAY:	Orientation conferences for freshmen and transfer students, 8:00 to 10:00 A.M. Registration for beginning freshmen and transfer students, 10:00 A.M. to 1:00 P.M. Registration for Evening Division students, 6:00 P.M.
JUNE 9, WEDNESDAY:	Classes meet as scheduled.
JUNE 14, MONDAY:	Last day for adding first term courses.
JUNE 18, FRIDAY:	Last day for dropping first term courses.
JUNE 22, TUESDAY:	English proficiency examination.
JUNE 25, FRIDAY:	Last day for dropping two-term courses.
JULY 5, MONDAY:	Holiday. Independence Day.
JULY 12, MONDAY:	Last day for withdrawal from first term.
JULY 14, WEDNESDAY:	Final examinations.

SECOND TERM

JULY 19, MONDAY:	Registration of all undergraduates. Registration for graduate students at 2:00 P.M. Registration for Evening Division students at 6:00 P.M.
JULY 20, TUESDAY:	Classes meet as scheduled.
JULY 22, THURSDAY:	Last day for adding second term courses.
JULY 23, FRIDAY:	Last day for making application to appropriate school dean for degrees to be conferred in August, 1965.
JULY 29, THURSDAY:	Last day for dropping second term courses.
AUGUST 3, TUESDAY:	English proficiency examination.
AUGUST 16, MONDAY:	Last day for withdrawal from second term.
AUGUST 19, THURSDAY:	Final examinations.
AUGUST 20, FRIDAY:	Commencement, 8:00 P.M.

Part One

OFFICERS, FACULTY, AND STAFF OF THE UNIVERSITY

THE BOARD OF EDUCATION
of
THE STATE OF TENNESSEE

HON. FRANK G. CLEMENT, Governor of the State of Tennessee,
ex officio

HON. J. HOWARD WARF, Commissioner of Education, The State
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HON. HAL D. WEST, *Nashville*

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 R. P. CLARK, B.S., M.A., *Dean of Admissions*
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 ROBERT DOYLE COX, LL.B., LL.M., *Dean of The School of Law*
 CALVIN MOORMAN STREET, B.S., M.S., Ed.D., *Director of The Evening Division*
 HEBER ELIOT RUMBLE, B.S., M.A., Ph.D., *Director of The Summer Session*

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- The President
 The Academic Dean
 The Dean of Students
 The Dean of Admissions
 The Deans of The School of Arts and Sciences, The School of Business Administration, The School of Education, and The Graduate School.
 The Directors of The Evening Division and The Summer Session
 The Chairman of The Faculty Council

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ZACH CURLIN, B.A., LL.B., *Assistant Professor Emeritus of Health and Physical Education*

CHESTER P. FREEMAN, B.S., M.A., M.S., Ph.D., *Associate Professor Emeritus of Biology*

MARY L. HEISKELL, B.A., M.A., *Associate Professor Emeritus of Spanish*

MARIE MCCORMACK HOOKS, *Instructor Emeritus in Art*

WILLIAM H. MILNER, B.A., M.A., *Associate Professor Emeritus of Management*

NELLIE ANGEL SMITH, B.S., M.A., Ph.D., *Professor Emeritus of Latin*

THE FACULTY

- WILLIAM CARTER ABBETT (1949), *Assistant Professor of English*
B.S., 1948, Memphis State University; M.A., 1949, Vanderbilt University.
- CHARLES SHELTON AIKEN (1962), *Instructor in Geography*
B.S., 1960, Memphis State University; M.A., 1962, University of Georgia.
- HERBERT GRAVES ALLBRITTEN (1963), *Associate Professor of Chemistry*
B.S., 1931, Murray State College; M.S., 1941, University of Kentucky;
Ph.D., 1951, The Pennsylvania State University.
- MILDRED B. ALGEE (1953), *Instructor in Library Service*
B.S., 1931, Union University; M.A., 1951, George Peabody College.
- CHARLENE JAYROE ALLEN (1960), *Instructor in English*
B.A., 1957, Southwestern at Memphis; M.A., 1958, University of Alabama.
- CHARLES HENRY ALLGOOD (1955), *Professor of Art*
B.F.A., 1950, M.F.A., 1951, University of Georgia.
- RUTH BRITTON ALMY (1958), *Instructor in Geography*
B.S., 1956, M.A., 1957, Memphis State University.
- HOLGER WITMER ANDERSEN (1949), *Associate Professor of Psychology*
B.A., 1926, Nebraska State Teachers College; M.A., 1930, University of Wyoming; Ph.D., 1937, George Peabody College.
- SAM ARMSTEAD ANDERSON (1946), *Associate Professor of Mathematics*
B.A., 1929, Southwestern at Memphis; M.A., 1932, George Peabody College.
- BARBARA L. ANTONELLI (1963), *Instructor in Physical Education*
B.A., 1960, Webster College; M.A., 1963, Washington University.
- HARRY AUSPRICH (1963), *Professor of Speech and Drama*
B.S., 1954, New York State University, College at Buffalo; M.S., 1956, University of Wisconsin; Ph.D., 1963, Michigan State University.
- HAROLD RAMSEY BANCROFT (1962), *Assistant Professor of Biology*
B.S., 1958, M.S., 1959, Ph.D., 1962, Mississippi State University.
- PETER BANNON (1947), *Professor of English*
B. A., 1936, M.A., 1937, Ph.D., 1943, State University of Iowa.
- MELVIN C. BARBER (1959), *Instructor in Geography*
B.S., 1958, Memphis State University; M.A., 1959, George Peabody College.
- WILLIAM B. BARTON, JR. (1958), *Professor of Philosophy*
B.A., 1944, Abilene Christian College; S.T.B., 1947, S.T.M., 1948, Ph.D., 1955, Harvard University.

- EUGENE BENICE (1949), *Professor of Speech and Drama*
B.S., 1933, Memphis State University; M.A., 1949, Northwestern University.
- WILLIAM FRANK BETHANY (1957), *Assistant Professor of Mathematics*
B.S., 1957, Memphis State University; M.S., 1958, University of Mississippi.
- CHARLES P. BIGGER (1963), *Associate Professor of Philosophy*
B.A., 1947, M.A., 1949, Ph.D., 1951, University of Virginia.
- NANCY JANE BILLETT (1963), *Instructor in Secretarial Science*
B.B.A., 1962, M.A., 1963, Memphis State University.
- JAMES RICHARD BLEVINS (1963), *Instructor in English*
B.A., 1956, David Lipscomb College; M.A., 1960, George Peabody College.
- AARON M. BOOM (1949), *Professor of History*
B.A., 1940, M.A., 1941, University of Nebraska; Ph.D., 1948, University of Chicago.
- JERRY NEAL BOONE (1962), *Associate Professor of Psychology*
B.A., 1949, University of Mississippi, M.A., 1951, University of Florida, Ph.D., 1961, Vanderbilt University.
- ROBERT CLARENCE BORRESEN (1963), *Assistant Professor of Psychology*
B.S., 1954, Northwestern University; M.A., 1959, University of Missouri.
- MARY VIRGINIA BOWMAN (1963), *Assistant Professor of English*
B.A., 1940, Mount Holyoke College; M.A., 1951, Ph.D., 1960, University of Virginia.
- DONALD A. BOYD (1957), *Assistant Professor of Management*
B.S., 1956, Delta State College; M.B.A., 1957, Indiana University.
- GERALD EDWARD BREGER (1963), *Assistant Professor of Management*
B.S., 1952, University of Florida; M.A., 1956, University of Miami.
- WILLIAM B. BREWER (1961), *Assistant Professor of Spanish*
B.A., 1958, Memphis State University; M.A., 1959, Tulane University.
- WILLIAM EDWARD BRIGMAN (1963), *Instructor in Political Science*
B.A., 1958, University of North Carolina.
- WILLIAM A. BROTHERTON (1948), *Assistant Professor of Industrial Arts*
B.S., 1948, Memphis State University; M.A., 1951, George Peabody College.
- CARL DEE BROWN (1952), *Professor of Biology*
B.S., 1947, Oklahoma Baptist University; M.S., 1947, Louisiana State University; Ph.D., 1951, Iowa State University.

- JAMES ALLISON BROWN (1962), *Instructor in Health and Physical Education*
B.S., 1955, Memphis State University.
- M. GORDON BROWN (1963), *Associate Professor of Spanish*
B.A., 1927 Washington Missionary College; M.A., 1936, Emory University;
Doctor of Letters, 1939, University of Dijon; Doctor of Philosophy and
Letters, 1940, University of Madrid.
- LEON WOODROW BROWNEE (1952), *Professor of Education*
B.S., 1939, Sul Ross State College; M.Ed., 1947, Ph.D., 1952, University of Texas.
- LEONARD ALLEN BRYSON (1963), *Instructor in Physical Education*
B.S., 1962, Indiana University; M.S., 1963, Southern Illinois University.
- ERWIN CLYDE BUELL (1960), *Professor of Political Science*
B.S., 1941, North Texas State University; M.S., 1947, Ph.D., 1955, University of North Carolina.
- ELSE ANNE BUNCH (1960), *Instructor in Physical Education*
B.S., 1954, Longwood College; M.S., 1956, University of Tennessee.
- GEORGE LEWIS BURGESS (1962), *Instructor in English*
B.A., 1960, Mississippi State University; M.A., 1962, Louisiana State University.
- ORTON C. BUTLER (1960), *Assistant Professor of Geography*
B.A., 1948, Oberlin College; M.A., 1951, Clark University.
- RONALD EDWIN CARRIER (1963), *Professor of Economics and Director of the Bureau of Business Research*
B.S., 1955, East Tennessee State University; M.S., 1957, Ph.D., 1960, University of Illinois.
- WILLIAM PIERCE CARSON (1947), *Professor of English*
B.A., 1913, Furman University; M.A., 1915, University of Chicago; Ph.D., 1925, Columbia University.
- MARJORIE CHAN (1963), *Instructor in Music*
B.M., 1961, Oberlin College; M.M. 1963, Indiana University.
- FRANCES EVALYN CHANEY (1958), *Instructor in English*
B.A., 1940, Arkansas College; M.A., 1944, George Peabody College.
- LOUISE CAMBRON CHAPMAN (1949), *Assistant Professor of Marketing*
B.S., 1947, Southeast Missouri State College; M.A., 1949, State University of Iowa.
- HELEN W. CHILDERS (1958), *Associate Professor of English*
B.A., 1935, Southwest Texas State Teachers College; M.A., 1950, Ph.D., 1958, George Peabody College.
- WILLIAM A. CHRISTENBERRY, JR. (1962), *Instructor in Art*
B.F.A., 1958, M.A. 1959, University of Alabama.

- DON PEARSON CLAYPOOL (1956), *Professor of Chemistry*
B.S., 1946, Tulane University; M.S., 1950, Ph.D., 1952, University of Kentucky.
- VADA ANN CLIFTON (1963), *Instructor in English*
B.A., 1961, Bethany College; M.A., 1963, University of Arkansas.
- JOHN L. COBB (1958), *Instructor in Physical Education*
B.S., 1951, M.A., 1955, Memphis State University.
- MYRTLE S. COBB (1940), *Associate Professor of Education*
B.A., 1929, Chatham College; M.A., 1932, University of Pittsburgh.
- WILLIAM HENRY COBB (1962), *Instructor in History*
B.A., 1960, M.A., 1962, University of Arkansas
- SAMUEL VADAH COCHRAN, JR. (1961), *Instructor in English*
B.A., 1941, Louisiana State University; M.A., 1942, University of Wisconsin.
- FRED DARWYN COLLINS (1963), *Instructor in English*
B.A., 1959, A.&M. College of Texas; M.A., 1963, University of Mississippi.
- PATRICK BURRELL COLLINS (1963), *Instructor in English*
B.S.E., 1960, Delta State College; M.A., 1961, University of Mississippi.
- R. J. COLTHARP (1945), *Professor of Industrial Arts*
B.A., 1927, Wesmar College; M.S., 1938, Kansas State College.
- CONRAD CONSALVI (1963), *Assistant Professor of Psychology*
B.A., 1953, Temple University; M.A., 1955; Ph.D., 1960, Vanderbilt University.
- JOHN H. CORBET (1958), *Assistant Professor of Geography*
B.S., 1953, M.A., 1954, Memphis State University
- HARRY C. COTHAM (1958), *Assistant Professor of English*
B.A., 1941, Abilene Christian College; M.A., 1948, Columbia University.
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- ROBERT DOYLE COX (1962), *Professor of Law; Dean of The School of Law.*
LL.B., 1949, University of Oklahoma; LL.M., 1953, Duke University.
- ELLERY EARL CRADER (1952), *Professor of Education; Director of The Extension Division*
B.S., 1928, Southeast Missouri State College; M.A., 1946, Ph.D., 1952, George Peabody College.
- CHARLES WANN CRAWFORD (1962), *Assistant Professor of History*
B.A., 1953, Harding College; M.A., 1958, University of Arkansas.
- EDWARD IRWIN CRAWFORD (1946), *Professor of Accountancy*
B.S., 1916, University of Washington; M.S., 1936, University of Southern California; Ed.D., 1946, New York University.

- MAURICE A. CROUSE (1962), *Assistant Professor of History*
B.S., 1956, Davidson College; M.A., 1957, Northwestern University.
- PAUL JAMES CUNNINGHAM (1963), *Instructor in Biology*
B.S., 1956, Middle Tennessee State College; M.A., 1959, George Peabody College.
- LAWRENCE WILSON CURBO (1958), *Associate Professor of Accountancy*
B.B.A., 1950, M.B.A., 1950, University of Mississippi; C.P.A., 1950, Mississippi.
- ROBERT STUART CURBO (1962), *Assistant Professor of Accountancy*
B.B.A., 1957, M.B.A., 1958, University of Mississippi
- ARTHUR RENICH DAILEY (1960), *Instructor in Spanish*
B.A., 1938, Carson Newman College; Th.M., 1942, Southern Baptist Theological Seminary; M.A., 1960, University of Mississippi.
- MERLIN C. DAILEY (1960), *Assistant Professor of Art*
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- JOHN LASLEY DAMERON (1962), *Assistant Professor of English*
B.S., 1950, M.A., 1952, University of North Carolina; Ph.D., 1962, University of Tennessee.
- LEO J. DAVIS (1939), *Associate Professor of Health and Physical Education*
B.A., 1933, Bethel College; M.A., 1940, George Peabody College.
- MARGARET MORRIS DAVIS (1963), *Instructor in English*
B.A., 1959, M.A., 1963, University of Tulsa.
- JOSEPH JEROME DAY, JR. (1963), *Instructor in Mathematics*
B.S., 1956, University of Georgia; M.S., 1960, Auburn University.
- JOHN E. DEWS, JR. (1960), *Instructor in Psychology*
B.S., 1956, Tulane University.
- BARBARA MARTHA DOWD (1961), *Instructor in Health and Physical Education*
B.S., 1957, Memphis State University; M.A., 1958, University of Alabama.
- GEORGE L. DOWD (1963), *Assistant Professor of Education*
B.S., 1947, Union University; M.A., 1949, M.Ed., 1952, Ed.D., 1956, The University of Mississippi.
- LESLIE CLEMENT DULY (1963), *Assistant Professor of History*
B.A., 1957, University of South Dakota; M.A., 1959, University of Melbourne, Australia.
- BETTY LILLIAN DUVALL (1963), *Instructor in Physical Education*
B.S., 1961, M.A., 1962, Memphis State University.
- PAUL B. EAHEART (1946), *Professor of Music*
B.S., 1937, Memphis State University; M.A., 1946, Northwestern University.

- JOHN BLANTON EDGAR, JR. (1960), *Instructor in Management*
B.S., 1940, U. S. Naval Academy; Vet. Cert., 1947, Harvard School of
Business Administration; M.A., 1961, Memphis State University.
- O. DEAN EHLERS (1956), *Assistant Professor of Health and Physical
Education*
B.S., 1951, Central College; M.Ed., 1955, University of Missouri.
- VIRGINIA ANGELINE ELEAZER (1961), *Instructor in Biology*
B.S.E., 1940, M.S., 1943, University of Tennessee.
- JOHN H. ELLIS (1959), *Assistant Professor of History*
B.S., 1955, M.A., 1957, Memphis State University; Ph.D. 1962, Tulane
University.
- MAXWELL EMERSON (1960), *Instructor in Management*
B.S.C., 1957, Roosevelt University; M.A., 1961, Memphis State University.
- JOE REX ENOCH (1962), *Assistant Professor of Sociology*
B.S., 1959, Union University; M.A., 1960, University of Arkansas.
- HELEN O. ENSLEY (1963), *Instructor in English*
B.A., 1961, Memphis State University; M.A., 1962, University of
Tennessee.
- BRODIE TRAVIS ESTES (1951), *Assistant Professor of Chemistry*
B.S., 1947, M.A., 1956, Memphis State University.
- JOHN Y. EUBANK, JR. (1961), *Instructor in Education*
B.S., 1954, M.A., 1960, Memphis State University.
- HENRY B. EVANS (1942), *Professor of English*
B.S., 1923, M.A., 1928, Ph.D., 1938, George Peabody College.
- WILLIAM FARRIMOND (1961), *Instructor in Mathematics*
B.S., 1936, University of Illinois.
- JOHN EDWARD FARRIOR (1948), *Professor of English*
B.A., 1939, M.A., 1944, Ph.D., 1954, University of North Carolina.
- VICTOR FEISAL (1959), *Assistant Professor of Biology*
B.S., 1958, Memphis State University; M.S., 1960, University of Houston.
- THOMAS C. FERGUSON (1960), *Assistant Professor of Music*
B.M.E., 1954, Murray State College; M.M., 1956, Eastman School of
Music, University of Rochester.
- WAYNE B. FISHER (1963), *Assistant Professor of Education*
B.S., 1952, M.S., 1957, University of Tennessee.
- JAMES ROY FITZPATRICK (1954), *Assistant Professor of Accountancy*
B.S., 1948, Tennessee Polytechnic Institute; M.S., 1951, University of
Kentucky.
- LORETTA DYER FLOYD (1952), *Assistant Professor of Health and
Physical Education*
B.S., 1946, Alabama State College for Women; M.A., 1947, New York
University.

- DEWEY BRAY FOLDEN, JR., (1949), *Associate Professor of Biology*
B.S., 1947, B.A., 1948, Morris Harvey College; M.S., 1949, West Virginia University.
- MELVIN V. FOSTER (1962), *Instructor in Mathematics*
B.S., 1956, Southern State College; M.S., 1963, University of Arkansas.
- EUGENE HENRY FOX (1959), *Professor of Management*
B.S., 1956, Northern States College; Ph.D., (1962), University of Alabama.
- JESSE WELLS FOX (1947), *Professor of Chemistry*
B.S., 1931, M.A., 1937, George Peabody College.
- MAUDE GREENE FOX (1947), *Instructor in English*
B.S., 1937, M.A., 1940, George Peabody College.
- BESS HENDERSON FREEMAN (1927), *Associate Professor of Home Economics*
B.S., 1921, George Peabody College; M.A., 1927, Columbia University.
- ROGER W. FRENCH (1956), *Assistant Professor of Health and Physical Education*
B.S., 1956, University of Minnesota; M.A., 1959, Memphis State University.
- GEORGE ALBERT FROCK (1963), *Instructor in Music*
B.S.M.E., 1960, University of Illinois; M.M.E., 1963, University of Kansas.
- HOWARD EDWARD FRYE (1955), *Assistant Professor of Geography*
B.S., 1951, Eastern Michigan University; M.A., 1954, University of Michigan.
- WALTER CURRIE FURR, JR. (1963), *Instructor in English*
B.S.E., 1938, Delta State College; M.A., 1947, George Peabody College.
- WILLIAM WALTON GARRETT (1963), *Associate Professor of Law*
B.S., 1949, University of Alabama; LL.B., 1954, Birmingham School of Law; LL.B., 1963, Cumberland School of Law; LL.M., 1963, Yale University.
- *JOSEPH M. GARZA (1961), *Instructor in Sociology*
B.A., 1959, Southeastern Louisiana College; M.S., 1961, Florida State University.
- WILLIAM LARRY GENTRY (1963), *Instructor in English*
B.A., 1961, David Lipscomb College; M.A., 1963, Vanderbilt University.
- WILLIAM R. GILLASPIE (1961), *Associate Professor of History*
B.A., 1952, Westminster College; M.A., 1954, University of Missouri; Ph.D., 1961, University of Florida.
- JOHN RAMSEY GORDON (1947), *Professor of Sociology*
B.A., 1929, M.A., 1932, Baylor University; Ph.D., 1951, University of Texas.

*On leave of absence, 1963-64

- FRANK H. GOVAN (1956), *Associate Professor of Art*
B.A., 1938, Hendrix College; M.A., 1951, Columbia University.
- PEGGY WATSON GOVAN (1961), *Instructor in Art*
B.S.E., 1956, Arkansas State Teachers College; M.A., 1961, Memphis State University.
- FRANK MARLIN GRIMES (1961), *Instructor in English*
B.A., 1958, M.A., 1961, University of Mississippi.
- RICHARD D. GUYNN (1963), *Instructor in Economics*
B.S., 1960, Virginia Polytechnic Institute; M.A., 1963, Memphis State University.
- EDWARD VINCENT HACKETT (1962), *Assistant Professor of Psychology*
B.S., 1952, M.S., 1954, St. Louis University.
- THOMAS NEAL HAGOOD (1963), *Instructor in English*
B.A., 1954, Jacksonville State College; M.A., 1960, Birmingham-Southern College.
- IVAN LAMOIN HALL (1963), *Assistant Professor of Accountancy*
B.S., 1956, Arkansas State Teachers College; M.B.A., 1958, University of Arkansas.
- GEORGE JONES HARRIS (1947), *Professor of Music*
B.A., 1936, Greenville College; M.M., 1947, Northwestern University.
- RALPH L. HATLEY (1947), *Professor of Health and Physical Education*
B.S., 1936, M.S., 1950, University of Tennessee.
- GABE C. HAWKINS (1962), *Instructor in Industrial Arts*
B.S., 1940, Mississippi State College; B.S., 1949, U.S.A.F. Institute of Technology; M.A., 1962, Memphis State University.
- HERSCHEL MOORE HAYES (1952), *Associate Professor of Chemistry*
B.S., 1949, Middle Tennessee State College; M.A., 1950, George Peabody College.
- ALBERT FORD HAYNES, JR. (1954), *Professor of Education*
B.S., 1941, M.A., 1954, Memphis State University; Ed.D., 1958, University of Tennessee.
- VELMA BROOKS HEATHERLY (1932), *Professor of French*
B.S., 1928, M.A., 1932, George Peabody College.
- MYLO L. HEEN (1961), *Instructor in Mathematics*
B.S., 1938, University of North Dakota; M.S., 1961, Purdue University.
- CHARLES S. HENDERSON (1963), *Assistant Professor of Sociology*
B.A., 1952, Vanderbilt University; M.A., 1953, George Peabody College.
- EMMA CLAIRE HENRY (1955), *Instructor in Education*
B.S., 1952, M.A., 1953, Memphis State University.
- *FLOYD RUBIN HERZOG (1961), *Instructor in Speech and Drama*
B.S., 1959, Memphis State University; M.S., 1962, Purdue University.

*On leave of absence, 1963-64

- JOHN R. HIRSCHMANN (1955), *Assistant Professor of Industrial Arts*
B.S., 1953, Memphis State University; M.A., 1958, George Peabody College.
- B. JAMES HOGGATT (1962), *Instructor in Physical Education*
B.S., 1953; M.A., 1962, Memphis State University.
- *WILLIAM SLATER HOLLIS (1961), *Assistant Professor of Economics and Finance*
B.S.B.A., 1952, LL.B., 1958, University of Arkansas; M.A., 1962, Memphis State University.
- ELMORE HOLMES (1947), *Professor of Chemistry*
B.S., 1922, Princeton University; M.A., 1926, Columbia University; Ph.D., 1947, University of Tennessee.
- RAY SMALLEY HOUSE (1963), *Associate Professor of Marketing*
B.S., 1950, Union University; M.B.A., 1962, University of Mississippi.
- ELMO H. HOWELL (1957), *Associate Professor of English*
B.A., 1940, University of Mississippi; M.A., 1948, Ph.D., 1955, University of Florida.
- GOLDEN LEON HOWELL (1961), *Assistant Professor of Biology*
B.S., 1950; M.S., 1954, Ph.D., 1959, University of Alabama.
- MELVIN A. HUMPHREYS (1962), *Instructor in Health and Physical Education*
B.S., 1959, B.S., 1961, University of Tennessee, M.A., 1962, Memphis State University.
- ROSEMARY HUFF (1963), *Instructor in English*
B.A., 1954, Louisiana Polytechnic Institute; M.A., 1963, Louisiana State University.
- CHARLES CARROLL IJAMS (1947), *Professor of Physics*
B.A., 1936, Union University; M.S., 1937, Ph.D., 1941, Vanderbilt University.
- FLORENCE V. ILLING, R.N. (1951), *Assistant Professor of Health and Physical Education and Director of Health Services*
G.N., 1936, Medical College of South Carolina; B.S., 1950, George Peabody College; M.A., 1953, Memphis State University.
- WILLIAM ROBERT INGRAM (1957), *Assistant Professor of Marketing*
B.S., 1956, Arkansas Polytechnic College; M.B.A., 1957, University of Arkansas.
- HAROLD ISAACS (1962), *Instructor in History*
B.S., 1958, M.A., 1960, University of Alabama.
- MARVIN LEROY JACOBS (1962), *Associate Professor of Mathematics*
B.S., 1940, U. S. Military Academy; M.S., 1949, University of Illinois.
- PAT VERNEL JAMES (1963), *Instructor in English*
B.A., 1958, Southern State College; M.A., 1960, University of Arkansas.

*On leave of absence, 1963-64

- OVERTON PHILLIP JAMES (1957), *Assistant Professor of English*
B.A., 1940, Arkansas College; M.A., 1946, University of Chicago; Ph.D., 1962, Vanderbilt University.
- RIENZI WILSON JENNINGS (1951), *Professor of Secretarial Science and Office Management*
B.S., 1927, State University of Iowa; M.A., 1928, Ph.D., 1949, University of Kentucky.
- DANA DOANE JOHNSON (1954), *Professor of Art*
B.A., 1937, Dartmouth; M.Ed., 1947, Ed.D., 1954, Boston University.
- GLENN ALBERT JOHNSON (1956), *Assistant Professor of Health and Physical Education*
B.A., 1924, Huntington College; M.A., 1930, Columbia University.
- RAYBURN W. JOHNSON (1925), *Professor of Geography*
B.S., 1924, M.A., 1925, George Peabody College; Ph.D., 1936, University of Chicago.
- SAM HOWARD JOHNSON (1949), *Professor of Education; Dean of The School of Education*
B.S., 1931, Memphis State University; M.A., 1939, Columbia University; Ed.D., 1954, New York University.
- VIRGINIA LEE JOHNSON (1940), *Associate Professor of Secretarial Science and Office Management*
B.S., 1930, Memphis State University; M.S., 1944, University of Tennessee.
- ELLIOTT ANNA JONES (1963), *Instructor in English*
B.A., 1960, Millsaps College; M.A., 1962, University of Arkansas.
- ELLIS M. JONES, JR. (1961), *Lieutenant Colonel, United States Air Force; Professor of Air Science*
B.S., 1958, Syracuse University; M.A., 1963, Memphis State University.
- A. D. JOSEPH, JR. (1962), *Major, United States Air Force; Assistant Professor of Air Science*
B.S., 1954, M.Ed., 1955, M.A., 1957, Bowling Green State University.
- HELEN H. KALTENBORN (1946), *Assistant Professor of Mathematics*
B.A., 1931, Barnard College; M.A., 1934, Columbia University; Ph.D., 1934, University of Michigan.
- HOWARD S. KALTENBORN (1946), *Professor of Mathematics*
B.S., 1928, Carnegie Institute of Technology; M.S., 1931, Ph.D., 1934, University of Michigan.
- ROBERT HARRELD KARRAKER (1961), *Assistant Professor of Chemistry*
B.A., 1953, Southern Illinois University; Ph.D., 1961, Iowa State University.
- IRL BROWN KRAUSE (1957), *Associate Professor of Education*
B.A., 1944, Westminster College; M.A., 1949, Ed.D., 1954, University of Mississippi.

- ZELMA W. KUBIK (1963), *Instructor in English*
B.S., 1936, University of Missouri; M.A., 1961, Memphis State University.
- EDWIN MURRAY LABOUNTY (1962), *Assistant Professor of Music*
A.B., 1948, Yankton College; B.M., 1951, M.M., 1952, Mus.D., 1962, Indiana University.
- EUGENE W. LAMBERT (1950), *Professor of Health and Physical Education*
B.S., 1930, University of Arkansas; M.Ed., 1935, University of Texas, Ed.D., 1942, Columbia University.
- SHIRLEY LEE LAND (1963), *Instructor in Psychology*
B.A., 1959, Coker College; M.A., 1961, Vanderbilt University.
- FREDERIC O. LARRABEE (1954), *Professor of Management*
B.A., 1927, LL.B., 1930, State University of Iowa.
- HOMER A. LAWRENCE, JR. (1960), *Assistant Professor of Industrial Arts*
B.S., 1951, East Texas State College; M.Ed., 1956, North Texas State College.
- FRANK CRAGG LEEMING (1963), *Assistant Professor of Psychology*
B.S., 1958, University of Illinois; M.A., 1961, Ph.D., 1963, University of Mississippi.
- GEORGE B. LEON (1962), *Assistant Professor of History*
A.B., 1956, M.A., 1957, Ph.D., 1961, University of Georgia
- CHARLES E. LONG (1957), *Associate Professor of German*
B.A., 1951, Henderson State Teachers College; M.A. (English), 1955; M.A. (German), 1956; Ph.D., 1963, University of Arkansas.
- *CHARLES JOSEPH LONG (1962), *Instructor in Psychology*
B.S., 1960, M.A., 1962, Memphis State University.
- PAUL RUSSELL LOWRY (1963), *Associate Professor of Management and Assistant Director, Bureau of Business Research*
B.S., 1941, M.B.A., 1959, Texas A. and M. University.
- FREDERICK LUBRANI (1962), *Assistant Professor of Music*
B.S., 1939, University of Cincinnati; Diploma in Clarinet, 1939, Cincinnati Conservatory of Music; M.M., 1946, Cincinnati Conservatory of Music.
- HERBERT JOHN MARKLE (1951), *Professor of Economics and Finance; Dean of The School of Business Administration*
B.B.A., 1932, University of Minnesota; M.A., 1949, Ph.D., 1951, State University of Iowa.
- IRMA GREER MARKS (1944), *Instructor in Chemistry*
B.S., 1944, Memphis State University; M.S., 1950, University of Arkansas.
- HOLT CARLETON MARLOW (1962), *Assistant Professor of History*
B.S., 1958, M.S., 1959, Brigham Young University.

*On leave of absence, 1963-64

- ROBERT HERMAN MARSHALL (1960), *Associate Professor of Chemistry*
B.S., 1947, M.S., 1950, Illinois State Normal University; Ph.D., 1954, University of Illinois.
- CHARLES FREDERICK MARTIN (1963), *Assistant Professor of Economics*
B.A., 1950, Wayne State University; M.A., 1957, University of Mississippi.
- MARTHA ANNA MARTIN (1963), *Instructor in English*
B.A., 1962, M.A., 1963, University of Arkansas.
- JAMES S. MATTHEWS (1949), *Associate Professor of Geography*
B.S., 1936, M.A., 1941, Kent State University; Ph.D., 1949, University of Chicago.
- JOHN H. MAYFIELD (1963), *Instructor in English*
B.A., 1961, Murray State College; M.A., 1963, University of Kentucky.
- JAMES EUGENE MCALPIN (1961), *Instructor in Industrial Arts*
B.S., 1957, Memphis State University; M.A., 1959, George Peabody College.
- ELNA BROWNING MCBRIDE (1946), *Associate Professor of Mathematics*
B.S., 1930, M.S., 1931, University of Tennessee.
- JAMES RAYMOND MCCANN (1955), *Professor of Psychology*
B.A., 1950, Washington University; M.A., 1952, University of Kansas City; Ph.D., 1955, Vanderbilt University.
- MARY HELEN MCCLANAHAN (1962), *Assistant Professor of Political Science*
B.B.A., 1957, M.A., 1958, Emory University; Ph.D., 1963, Cornell University.
- JOE ALBERT MCEACHERN (1962), *Instructor in Mathematics*
B.S., 1931, University of Tennessee; M.S., 1961, The George Washington University.
- ROBERT W. MCGOWAN (1949), *Associate Professor of Biology*
B.A., 1946, Lambuth College; M.A., 1947, George Peabody College.
- WAYNE MCCLAURIN (1950), *Assistant Professor of English*
B.S., 1948, Memphis State University; M.A., 1951, Duke University.
- JOHN ANDERSON MCLEMORE (1956), *Assistant Professor of English*
B.S., 1956, M.A., 1957, Memphis State University.
- EDWARD PERRY MCMAHON (1962), *Assistant Professor of Management*
B.S., 1945, U.S. Coast Guard Academy; B.S., 1949, M.S., 1958, University of Tennessee.
- ROBERT DEE McMILLAN (1963), *Instructor in Mathematics*
A.A., 1959, Oklahoma Christian College; B.A., 1961, Abilene Christian College; M.S., 1963, Oklahoma State University.

- MARTHA J. MCNEIL (1962), *Instructor in English*
B.S.E., 1960, Arkansas State College; M.A., 1962, University of Arkansas.
- ENOCH L. MITCHELL (1939), *Professor of History*
B.S., 1929, Memphis State University; M.A., 1938, George Peabody College.
- KELL FREEMAN MITCHELL, JR. (1963), *Assistant Professor of History*
B.A., 1957, M.A., 1960, University of Georgia.
- JAMES ALEXANDER MONTGOMERY (1962), *Instructor in Biology*
B.S., 1960, M.A., 1962, Memphis State University.
- JOE ARTHUR MOORE (1963), *Associate Professor of Law*
B.A., 1948, Oklahoma State University; LL.B., 1949, University of Oklahoma; LL.M., 1963, Southern Methodist University.
- NELLE ELIZABETH MOORE (1956), *Assistant Professor of Education*
B.A., 1930, Lambuth College; M.A., 1946, Duke University.
- *FRANK MORGAN (1958), *Instructor in English*
B.A., 1954, Mississippi College; M.A., 1957, University of Mississippi.
- WILLIAM MACK MORROW (1961), *Assistant Professor of Political Science*
B.S., 1949, School of Foreign Service, Georgetown University; M.A., 1951, Vanderbilt University.
- EDWARD NEWTON MOSLEY (1962), *Instructor in Mathematics*
B.A., 1960, Arkansas College; M.S., 1962, University of Arkansas.
- ROLAND THOMAS MULLINS (1960), *Professor of Economics and Finance*
B.S., 1956, Arkansas State College; M.B.A., 1957, Ph.D., 1961, University of Arkansas.
- BILLY J. MURPHY (1947), *Instructor in Health and Physical Education*
B.S., 1946, Mississippi State University.
- JOHN MILLEDGE NAIL (1962), *Instructor in English*
B.A., 1955, Southwestern at Memphis; M.A., 1961, Tulane University.
- CHARLES H. NASH (1961), *Instructor in Anthropology; Director of Chucalissa Museum*
B.A., 1932, Beloit College.
- DELBERT P. NAVE (1950), *Assistant Professor of Art*
B.Ed., 1934, Eastern Illinois University; M.A., 1939, Ohio State University.
- EMIL CHARLES NEMITZ (1954), *Assistant Professor of Chemistry*
B.S., 1922, University of Illinois; M.A., 1955, Memphis State University.

*On leave of absence, 1963-64

CHARLES HOWARD NEWTON (1963), *Associate Professor of Sociology*

B.A., 1956, M.A., 1958, University of Nebraska; Ph.D., 1962, Florida State University.

ELBERT F. NOTHERN (1958), *Associate Professor of Education*

B.S.E., 1947, University of Arkansas, Ed.M., 1949, Harvard University; Ed.D., 1953, University of Arkansas.

ROBERT LEE OGLE (1955), *Assistant Professor of Industrial Arts*

B.S., 1953, M.S., 1956, Ed.D., 1963, University of Tennessee.

LEWIS B. O'KELLY (1962), *Assistant Professor of Physics*

B.S., 1957, Memphis State University; M.S., 1960, Vanderbilt University.

MARCUS W. ORR (1959), *Assistant Professor of History*

B.A., 1952, Southwestern at Memphis; M.A., 1956, Ph.D., 1958, University of Illinois.

WILLIAM ROBERT OSBORNE (1955), *Associate Professor of English*

B.A., 1948, Ouachita College; M.A., 1949, Ph.D., 1955, George Peabody College.

HARRISON KIRKLAND OSOINACH (1961), *Instructor in Anthropology*

B.A., 1955, Southwestern at Memphis; M.A., 1960, University of Chicago.

BETTY HULL OWEN (1959), *Instructor in Health and Physical Education*

B.S., 1956, Memphis State University; M.P.E., 1960, Purdue University.

ROY LAYTON OWENS (1963), *Instructor in Art*

M.F.A., 1961, Los Angeles County Art Institute.

WILLIAM HOWARD PAGE (1962), *Instructor in English*

B.S., 1956, Middle Tennessee State College; M.A., 1957, George Peabody College.

GEORGE WILSON PARCHMAN (1951), *Associate Professor of Biology*

B.S., 1948, M.A., 1949, George Peabody College.

LEA GIBBS PARK (1954), *Assistant Professor of Speech and Drama*

B.S., 1956, M.A., 1957, Memphis State University.

MAURICE ALFRED PARKINSON (1962), *Associate Professor of French*

B.A., 1927, Bryson College; M.A., 1944, George Peabody College; Ph.D., 1954, University of North Carolina.

SHERMAN WILLIAM PARRY (1962), *Instructor in Mathematics*

B.S., 1940, Union College; M.S., 1962, Purdue University.

BILLY DEAN PARSONS (1963), *Assistant Professor of Speech and Drama*

B.A., 1955, Georgetown College; M.A., 1958, Louisiana State University.

JOHN WEST PATRICK (1962), *Instructor in Health and Physical Education*

B.S., 1942, M.Ed., 1950, Mississippi State University.

HERMAN F. PATTERSON (1955), *Assistant Professor of Secretarial Science and Office Management*

B.S., 1949, Berea College; M.A., 1954, University of Kentucky.

*BINFORD HARDY PEEPLES (1957), *Assistant Professor of Accountancy*

B.S., 1949, Mississippi State University; M.S., 1952, Florida State University.

CARROLL L. PELL (1961), *Associate Professor of French*

B.A., 1927, Mississippi College; M.A., 1933, George Peabody College; Ph.D., 1949, University of Wisconsin.

ELIZABETH CROW PHILLIPS (1953), *Associate Professor of English*

B.A., 1928, Maryville College; M.A., 1949, Ph.D., 1953, University of Tennessee.

MEREDITH POOLE (1955), *Assistant Professor of Mathematics*

B.A., 1950, M.A., 1955, University of Mississippi.

LARRY HOLMES POTTER (1952), *Assistant Professor of Mathematics*

B.A.E., 1943, M.A., 1949, University of Florida.

MINNIE McRAE POWELL (1958), *Assistant Professor of Education*

B.S., 1942, Memphis State University; M.A., 1949, University of Tennessee.

ROBERT J. PRENDEVILLE (1959), *Assistant Professor of Speech and Drama*

B.A., 1942, University of New Mexico; M.A., 1946, Northwestern University.

BEN FRANCIS PREWITT (1959), *Instructor in Mathematics*

B.S., 1936, U. S. Naval Academy; M.S., 1959, Purdue University.

FRANKLIN SEARCY PRICE (1960), *Instructor in Health and Physical Education*

B.S., 1957, M.A., 1959, Memphis State University.

ISABEL R. PULLEN (1961), *Instructor in French*

B.A., 1933, Mississippi State College for Women; M.A., 1957, University of Mississippi.

JIMMY REX PULLEY (1963), *Assistant Professor of Economics*

B.B.A., 1954, M.B.E., 1956, M.B.A., 1960, University of Mississippi.

NOEL GEORGE RAPP (1954), *Associate Professor of Speech and Drama*

B.A., 1941, Kent State University; Ph.D., 1955, Purdue University.

BASIL RATIU (1960), *Associate Professor of French*

A.A., 1947, A.B., 1947, University of Chicago; A.M., 1949, Indiana University; Ph.D., 1960, Columbia University.

*On leave of absence, 1963-64

FLORA HAYES RAWLS (1930), *Professor of Education; Dean of Women*

B.A., 1925, M.A., 1930, Vanderbilt University.

HENRY L. REEVES (1953), *Assistant Professor of Mathematics*

B.S., 1947, University of Alabama; M.A., 1951, George Peabody College.

M. GENEVA REID (1961), *Instructor in English*

B.A., 1957, Alabama College; M.A., 1959, University of Tennessee.

JOHN W. RICHARDSON (1959), *Professor of Education; Dean of The Graduate School*

B.S., 1931, Murray State College; M.Ed., 1939, Duke University; Ed.D., 1957, New York University.

MYRTLE PARKE RICHARDSON (1959), *Instructor in Education; Director of Placement and Certification*

B.A., 1931, Murray State College.

JOSEPH HOWARD RIGGS (1955), *Associate Professor of Speech and Drama*

B.A., 1952, Alderson-Broadbent; M.A., 1953, West Virginia University; Ph.D., 1962, University of Illinois.

JOSEPH RAYMOND RILEY (1954), *Assistant Professor of English*

B.S., 1949, Memphis State University; M.A., 1953, Ph.D., 1962, Vanderbilt University.

ELMA NEAL ROANE (1946), *Associate Professor of Health and Physical Education*

B.S., 1940, Memphis State University; M.S., 1943, University of Tennessee.

BETTY RUTH ROBERTS (1963), *Instructor in Physical Education*

B.S., 1962, East Tennessee State University; M.S., 1963, University of Tennessee.

JOHN LINCOLN ROBERTS (1954), *Associate Professor of Secretarial Science and Office Management*

B.S., 1948, Eastern Illinois University; M.A., 1950, George Peabody College; Ph.D., 1962, State University of Iowa.

CHARLES NELSON ROBINSON (1961), *Associate Professor of Chemistry*

B.S., 1949, Maryville College; M.S., 1951, Ph.D., 1953, University of Tennessee.

*CLAYTON R. ROBINSON (1961), *Instructor in English*

B.A., 1959, Trinity University; M.A., 1960, Mississippi Southern College.

DOROTHY GERTRUDE ROSS (1963), *Instructor of Art*

B.A., 1951, M.A., 1953, University of Minnesota.

WILLIAM TARVER ROUNTREE, JR. (1963), *Associate Professor of Law*

A.B., 1949, University of Alabama; LL.B., 1952, Harvard University.

*On leave of absence, 1963-64

- A. S. RUDOLPH (1945), *Professor of Biology*
B.S., 1924, Western Kentucky State Teachers College; M.S., 1929, University of Kentucky; Ph.D., 1938, Iowa State University.
- HEBER ELIOT RUMBLE (1946), *Professor of Education; Director of The Summer Session*
B.S., 1924, Oakland City College; M.A., 1933, Ph.D., 1943, University of Illinois.
- CHARLES H. RUMSEY (1962), *Assistant Professor of History*
B.A., 1951, M.A., 1952, State University of Iowa.
- LUTHER W. SANDERS (1961), *Instructor in Journalism*
B.S., 1960, Memphis State University; M.A., 1962, Ohio University.
- LADA MOORE SANDS (1951), *Instructor in Home Economics*
B.S., 1939, M.A., 1957, Memphis State University.
- RICHARD L. SARCHET (1963), *Instructor in Mathematics*
B.S., 1962, Southwestern State College; M.S., 1963, Oklahoma State University.
- FRANK B. SCHIRMER, JR. (1959), *Professor of Chemistry*
B.S., 1934, Clemson College; Ph.D., 1939, Cornell University.
- MICHAEL P. SCHON (1963), *Instructor in Speech and Drama*
A.A., 1953, Pasadena City College; B.A., 1958, Los Angeles State College; M.A., 1963, University of Denver.
- JOHN EDWARD SCHWAIGER (1956), *Instructor in Chemistry*
B.S., 1940, M.A., 1960, Memphis State University.
- E. B. SCOTT, JR. (1955), *Associate Professor of Health and Physical Education*
B.A., 1947, M.A., 1948, Colorado State College of Education; H.S.D., 1953, P.E.D., 1954, Indiana University.
- *DOROTHY RIVERS SEAY (1950), *Associate Professor of English*
B.A., 1918, Randolph-Macon; M.A., 1927, Ph.D., 1940, University of Chicago.
- THOMAS PAGE SHARP (1959), *Assistant Professor of Management*
B.S., 1957, M.S., 1959, Mississippi State University.
- RUBY FRIESE SHUBKAGLE (1962), *Associate Professor of Education*
B.S., 1948, Maryland State Teachers College; M.S., 1956, Ph. D., 1960, Indiana University.
- *WADE HERBERT SIDES, JR. (1963), *Professor of Law*
B.S., 1952, Memphis State University; LL.B., 1955, Vanderbilt University; LL.M., 1956, Yale University.
- DARRELL D. SIMMONS (1950), *Associate Professor of Industrial Arts*
B.S., 1940, Arkansas State Teachers College; M.S. 1949, Oklahoma Agricultural and Mechanical College; Ed.D., 1958, University of Tennessee.

*On leave of absence, 1963-64

- PAUL RAYMOND SIMONTON (1955), *Assistant Professor of Biology*
B.S., 1955, M.A., 1961, Memphis State University.
- PAUL HARDEMAN SISCO (1947), *Professor of Geography*
B.S., 1934, Memphis State University; M.A., 1947, George Peabody College; Ph.D., 1954, University of Chicago.
- JOHANNES SMIT (1960), *Associate Professor of Music*
B.S., 1948, M.S., 1949, Juilliard School of Music; Ph.D., 1953, Eastman School of Music, University of Rochester.
- ALFRED WINN SMITH (1954), *Associate Professor of English*
B.A., 1933, M.A., 1934, Vanderbilt University; Ph.D., 1954, George Peabody College.
- A. EUGENE SMITH (1960), *Instructor in Health and Physical Education*
B.S., 1949, Sterling College; M.S., 1954, Indiana University.
- OMAR EWING SMITH (1961), *Assistant Professor of Biology*
B.S., 1954, Memphis State University; M.S., 1958, Ph.D., 1961, Iowa State University.
- TERRY R. SMITH (1960), Captain, United States Air Force;
Assistant Professor of Air Science
B.S., 1950, Texas Technological College.
- WALTER RHEA SMITH (1951), *Professor of English; Dean of The School of Arts and Sciences*
B.A., 1939, Lambuth College; M.A., 1940, Southern Methodist University; Ph.D., 1951, University of California.
- WILL DUNN SMITH (1960), *Associate Professor of Education*
B.A., 1938, M.A., 1939, Vanderbilt University; Ph.D., 1952, George Peabody College.
- ROBERT VICTOR SMYTHE (1963), *Instructor in Spanish*
B.A., 1962, Memphis State University; M.A., 1963, University of Texas.
- JOHN A. SOBOL (1949), *Associate Professor of Geography*
B.S., 1942, Massachusetts State Teachers College; M.A., 1949, Clark University; Ph.D., 1961, University of Michigan.
- HARRIS MCLEAN SORRELLE (1962), *Assistant Professor of Art*
B.S., 1957, Memphis State University; M.F.A., 1959, University of Georgia.
- WILLIAM H. SPELL, JR. (1962), *Assistant Professor of Physics*
B.S., 1951, Memphis State University; M.S., 1953, University of Georgia; Ph.D., 1961, University of Arkansas.
- ELIZABETH SUPPLEE SPENCER (1956), *Assistant Professor of Journalism*
B.A., 1937, Cornell University; B.J., 1940, M.A., 1941, University of Missouri.
- JESSE WATSON SPICELAND (1949), *Professor of Accountancy*
B.S., 1947, Southern Illinois University; M.S.B.A., 1948, Washington University; C.P.A., 1951, Tennessee.

- CHARLES ROBERT SPINDLER (1950), *Professor of Marketing*
B.S., 1939, Northeast Missouri State Teachers College; M.A., 1942, State University of Iowa.
- JULIE WORTH SPRUNT (1957), *Assistant Professor of Psychology*
B.A., 1945, Mary Baldwin College; M.A., 1947, University of Virginia.
- LOUIS CHARLES STAGG (1962), *Assistant Professor of English*
B.A., 1955, Louisiana College; M.A., 1957, Ph.D., 1963, University of Arkansas.
- DIFEE WILLIAM STANDARD (1962), *Assistant Professor of History*
A.B., 1950, M.A., 1952, Emory University.
- HAROLD WILLIAM STEPHENS (1960), *Associate Professor of Mathematics*
B.S., 1941, New Jersey State College; M.A., 1944, Columbia University.
- BOB FRANKLIN STEPHENSON (1962), *Instructor in Physical Education*
B.S., 1956, M.A., 1958, Memphis State University.
- MARY ELIZABETH CUNNINGHAM STEPHENSON (1962), *Assistant Professor of Curriculum and Instruction*
B.S., 1941, University of Alabama; M.S., 1953, Florida State University; Ph.D., 1963, University of Alabama.
- DEWEY ALLEN STOKES, JR. (1962), *Assistant Professor of History*
A.B., 1952, Hendrix College; M.A., 1955, University of North Carolina.
- CALVIN MOORMAN STREET (1939), *Professor of Education; Director of The Evening Division*
B.S., 1939, Memphis State University; M.S., 1946, Ed.D., 1953, University of Tennessee.
- FRANCES LOUISE STREET (1957), *Assistant Professor of Mathematics*
B.S., 1940, Memphis State University; M.S., 1947, University of Tennessee.
- ARTHUR DOUGLAS STUTSMAN (1962), *Assistant Professor of Economics*
A.B., 1955, Central Methodist College; LL.B., 1958, M.A., 1962, University of Missouri.
- REDDING STANCILL SUGG, JR. (1963), *Professor of English*
B.A., 1943, University of North Carolina; M.A., 1948, Ph.D., 1952, University of Texas.
- HARRY HARMON SUMMER (1961), *Associate Professor of Marketing*
B.B.A., 1958, Memphis State University; M.S., 1961, University of Illinois.
- JOSEPH P. SWEAT (1963), *Assistant Professor of Education*
B.S., B.A., 1950, M.S., 1954, Ed.D., 1963 University of Arkansas.
- *RAYMOND L. TANNER (1955), *Assistant Professor of Physics*
B.S., 1953, Memphis State University; M.S., 1955, Vanderbilt University.

On leave of absence, 1963-64

HERMAN EUGENE TAYLOR (1956), *Associate Professor of Management*

B.A., 1940, LL.B., 1951, University of Mississippi; LL.M., 1955, New York University.

CHARLES E. TEMPLETON (1957), *Assistant Professor of Management*

B.S., 1942, Mississippi State University; M.A., 1962, Memphis State University; C.P.A., 1954, Tennessee.

KALMAN GEORGE TERNAY (1963), *Assistant Professor of German*
M.A., 1931, Ph.D., 1933, University of Budapest.

PETER GETHIN THOMAS (1963), *Instructor in Art*

B.F.A., 1958, M.A., 1959, University of Alabama.

CHARLES LAMAR THOMPSON (1963), *Assistant Professor of Education*

B.A., 1956, M.Ed., 1958, Mississippi College; Ed.D., 1963, University of Southern Mississippi.

JAMES THOMAS THOMPSON (1955), *Professor of Accountancy*

B.A., 1948, Murray State College; M.B.A., 1949, Indiana University; C.P.A., 1960, Tennessee.

WAYLAND A. TONNING (1956), *Professor of Marketing*

B.S., 1953, M.S., 1954, Ph.D., 1959, University of Illinois.

SYLVIA L. TORBET (1963), *Assistant Professor of Education*

B.S., 1953, M.Ed., 1955, Louisiana State University; Ed.S., 1963, George Peabody College.

MALRA CLIFFT TREECE (1957), *Assistant Professor of Secretarial Science and Office Management*

B.S., 1947, Arkansas State College; M.A., 1956, Memphis State University.

CLARENCE LAZEAR UNDERWOOD (1950), *Professor of Education*

B.S. Agr., 1918, West Virginia University; M.S., 1920, Ohio State University; Ph.D., 1935, University of Pittsburgh.

WALTER WILSON WADE (1962), *Associate Professor of Music*

B.S., 1948, East Tennessee State College; M.Mus., 1950, Ph.D., 1958, Northwestern University.

JAMES WILSON WAITES (1960), *Instructor in Physical Education*

B.A., 1937, Howard College; M.A., 1956, Trinity University.

DAVID TUTHERLY WALKER (1955), *Associate Professor of Mathematics*

B.S., 1949, Wofford College; M.S., 1951, Ph.D., 1955, University of Georgia.

DAN H. WARMBROD (1961), *Instructor in Biology*

B.S., 1953, Middle Tennessee State College; M.A., 1954, George Peabody College.

ROY E. WATKINS (1957), *Professor of Classical Languages*

B.A., 1933, Luther College; M.A., (Classics), 1934; M.A., (German), 1952; Ph.D., (Classics), 1940, State University of Iowa.

- ROBERT FRANCIS WATSON (1963), *Assistant Professor of Chemistry*
B.A., 1958, College of Wooster; Ph.D., 1963, University of Tennessee.
- FRANK FITZHUGH WELBOURNE (1963), *Assistant Professor of Biology*
B.S., 1956, M.S., 1958, University of South Carolina; Ph.D., 1962, University of Oklahoma.
- EDGAR DONNELLY WELCH (1962), *Assistant Professor of Law, Librarian, The School of Law*
B.A., 1953, Oklahoma City University; LL.B., 1934, Southern Methodist University; M.S., 1962, Kansas State Teachers College.
- PAUL L. WERTZ, JR. (1962), Major, United States Air Force; *Assistant Professor of Air Science*
B.S., 1947, Northwestern University.
- DAVID A. WEST (1963), *Professor of Economics and Finance*
B.A., 1955, John Brown University; M.B.A., 1956, Ph.D., 1961, University of Arkansas.
- GEORGE ALLEN WESTLAND (1957), *Assistant Professor of Journalism*
B.J., 1949, M.A., 1957, University of Missouri.
- MARY ALMA WHITAKER (1947), *Assistant Professor of Home Economics*
B.S., 1929, Memphis State University; M.S., 1941, University of Tennessee.
- BRADFORD WHITE (1948), *Professor of Speech and Drama*
B.A., 1934, University of North Carolina; M.F.A., 1939, Yale University.
- GERRY C. WHITE (1963), *Instructor in Industrial Arts*
B.S.-E.E., 1960, Christian Brothers College; M.S.-E.E., 1963, University of Tennessee.
- LONNIE J. WHITE (1961), *Associate Professor of History*
B.A., 1950, West Texas State College; M.A., 1955, Texas Technological College; Ph.D., 1961, University of Texas.
- HERBERT LEE WILLIAMS (1956), *Professor of Journalism*
B.A., 1940, Murray State College; M.A., 1941, University of Mississippi; Ph.D., 1955, University of Missouri.
- WILLIAM ROBERT WILLIAMS (1961), *Instructor in English*
B.A., 1957, Lambuth College; M.A., 1961, Memphis State University.
- JOHN ALLEN WINFREY (1958), *Instructor in Mathematics*
B.S., 1926, U.S. Naval Academy; M.S., 1958, Memphis State University.
- RUTH G. WOODBURY (1953), *Instructor in History*
B.A., 1940, M.A., 1947, University of Mississippi.
- JAMES DUDLEY WOOLF (1959), *Associate Professor of English*
B.A., 1942, The College of the Ozarks; M.A., 1949, University of Michigan; Ph.D., 1953, Vanderbilt University.

ALBERT HAINES WOOLLETT (1963), *Assistant Professor of Physics*
B.A., 1949, M.S., 1950, University of Mississippi; Ph.D., 1956, University of Oklahoma.

MILTON LEROY WRAY (1957), *Assistant Professor of Accountancy*
B.A., 1951, Southwestern at Memphis; M.B.A., 1954, Wharton School of Finance and Commerce, University of Pennsylvania; LL.B., 1960, Southern Law University; C.P.A., 1956, Tennessee.

LAWRENCE WYNN (1950), *Professor of English*
B.A., 1936, Emory University; M.A., 1940, Duke University; M.A., 1947, Ph.D., 1951, Princeton University.

LEE STRICKLEN YOUNG (1962), *Instructor in English*
B.A., 1952, Southern State College; M.A., 1956, University of Arkansas.

SPECIAL INSTRUCTORS

MILTON CALDWELL ADDINGTON, *Psychology*

B.A., 1947, Southwestern at Memphis; M.A., 1949, Ph.D., 1951, University of Tennessee.

RICHARD M. ADELMAN, *Industrial Arts*

B.S., 1958, Memphis State University.

THOMAS C. ASHCRAFT, *Music*

B.S., 1959, M.A., 1962, Memphis State University.

MARY V. BATTLE, *English*

B.A., 1948, College of St. Teresa; M.A., 1954, Catholic University of America.

AKI K. BERFIELD, *Management*

B.Hum., 1945, LL.M., 1951, University of Mexico.

ELIZABETH BOONE BILES, *Spanish and French*

B.A., 1936, University of Washington; M.A., 1939, New York University.

FRED BILLINGS, *Industrial Arts*

LL.B., 1949, Vanderbilt University.

ELMER FRANCIS BLALACK, *Art*

CHARLES H. BRANCH, *Marketing*

B.A., 1949, University of Wisconsin.

EMMA LEE FULWILER BUELL, *Spanish*

B.A., 1947, M.A., 1948, North Texas State Teachers College.

ROBERT CHARLES CANNON, *Psychology*

B.A., 1949, M.A., 1950, University of Denver; Ph.D., 1955, University of Colorado.

GORDON CHAPMAN, *Marketing*

B.S., 1956, Memphis State University.

ROBERT MORGAN CHRISTIAN, *Educational Administration*

B.A., 1939, Western Kentucky State College; M.A., 1945, George Peabody College.

RUTH MOORE COBB, *Harp*

Student of Carlos Salzedo at Dalcroze School of Music and at Curtis Institute of Music; former member of Salzedo Concert Ensemble; principal harpist, Memphis Symphony Orchestra.

ROBERT W. COLSTON, *Physical Education*

B.S., 1949, M.A., 1950, University of Tennessee; P.E.D., 1952, Indiana University

JUDITH ANN COMPTON, *Secretarial Science*

B.B.A., 1961, Memphis State University; M.S., 1962, University of Tennessee.

ASA LEVI COSTLOW, *Accountancy*

B.S., 1956, Memphis State University.

CHRISTINE DANIEL COUNCE, *Secretarial Science*

B.S., 1947, Florence State College; M.B.A., 1949, University of Mississippi.

SHELBY COUNCE, *Education*

B.A., 1949, Florence State College; M.S., 1950, University of Mississippi.

HAROLD DOUGLAS DAVIS, *Management*

B.S., 1958, Arkansas State College.

VINCENT DE FRANK, *Violoncello*

Student of Percy Such, George Miguelle, Fritz Magg; conductor and musical director, Memphis Symphony Orchestra.

WALTER HOWARD DELANGE, *Psychology*

B.S., 1956, M.S., 1957, Trinity University; Ph.D., 1961, University of Houston.

GEORGINA DORIS DETHERIDGE, *Education*

B.S., 1960, Memphis State University.

SEVERA HENRIETTA DEUTSCH, *German*

B.A., 1915, St. Ursula Teachers College, Vienna; 1920, Austrian State Teacher's Certificate.

J. FRANK FLY, *Industrial Arts*

B.S., 1950, Tennessee Polytechnic Institute.

ANTHONY T. FRAVEGA, *Industrial Arts*

B.S., 1947, Christian Brothers College.

NORRIS R. GABRIEL, *Industrial Arts*

B.S., 1951, Clemson College.

NOEL GILBERT, *Stringed Instruments*

Student of Joseph Henkel, Scipione Guidi. Conductor, Memphis Concert Orchestra.

JACK GOLDMAN, *Hebrew*

B.A., 1953, Rabbinical Ordination, 1958, Yeshiva University.

NELSON L. GONYAW, *Industrial Arts*

B.S., 1961, University of Mississippi.

MILDRED MAY GRAGG, *Education*

B.S., 1941, Memphis State University; M.A., 1948, George Peabody College.

JOSEPH GEORGE GRIESBECK, JR., *Education*

B.A., 1939, Southwestern at Memphis; B.S., 1940, Memphis State University; M.A., 1947, George Peabody College.

L. A. GROSSMEYER, *Industrial Arts*

B.S., 1955, Rensselaer Institute.

RALPH G. HALE, *Brass Instruments*

Student of Frank Simon, Tilden Well. Director of Bands, Christian Brothers College.

ELIZABETH TERRY HAMLIN, *Curriculum and Instruction*

B.A., 1931, Union University; M.A., 1941, Northwestern University.

- JAMES HOLADAY, *Speech and Drama*
B.A., 1959, M.A., 1962, University of Southern Mississippi.
- HOWARD D. HOLST, *Speech and Drama*
B.F.A., 1951, University of South Dakota.
- TRUDIE SOPHIE HORTON, *German*
- JOHN A. IRWIN, *Speech and Drama*
B.A., 1948, Ohio Wesleyan University; M.A., 1950, Western Reserve University; Director, Memphis Speech and Hearing Center.
- W. D. JENSEN, *Sociology*
B.S., 1948, M.D., 1951, University of Minnesota.
- ROBERT KIRKHAM, *Music*
B.S., 1954, Memphis State University.
- RICHARD KLINK, *Industrial Arts*
B.S., 1961, Memphis State University.
- LILY F. LIMBAUGH, *Speech and Drama*
B.A., 1953, M.A., 1955, University of Southern Mississippi.
- LEON DUPRE LONG, *Journalism*
B.S., 1958, East Texas State University; M.A., 1961, University of Missouri.
- PHYLLIS ELAINE MCCRAY, *Speech and Drama*
B.A., 1952, M.A., 1953, Louisiana State University.
- WILLIAM A. MCTIGHE, *History*
B.S., 1936, M.A., 1958, Memphis State University.
- RALPH LEE MAXEY, *Accountancy*
B.S., 1949, Murray State College; M.A., 1951, University of Kentucky.
- ETHEL TAYLOR MAXWELL, *Voice*
B.A., 1939, Southwestern at Memphis; M.A., 1956, Memphis State University.
- JOHN ETHEL MEASELLS, *Education*
B.S., 1931, M.A., 1946, Memphis State University; B.S. Lib. Sci., 1951, George Peabody College.
- TAMARA NIWNIA MILLER, *Russian*
- GEORGE V. MORSE, JR., *Marketing*
B.S., 1941, Boston University.
- NELL PEERSON, *Curriculum and Instruction*
B.S., 1930, M.A., 1933, Peabody College.
- DONALD W. PEMBERTON, *School of Law*
B.S., 1957, Memphis State University; LL.B., 1960, Vanderbilt University.
- HAROLD W. PERRY, *Education*
B.A.E., 1948, M.A., 1949, University of Mississippi.
- JANIE GOOLSBY POODRY, *Art*
B.S., 1946, M.A., 1948, Texas Women's University.

- GRACE ELIZABETH PRESCOTT, *History*
B.S., 1960, M.A., 1963, Memphis State University.
- IRA WILLIAM PYRON, JR., *Economics and Finance*
B.A., 1948, Southwestern at Memphis; M.B.A., 1951, Harvard Graduate School of Business Administration.
- SYDNEY RUDMAN, *Education*
B.S., 1942, M.Ed., 1947, Pennsylvania State University.
- SAMUEL THAYER RUTHERFORD, *Sociology and Anthropology*
B.A., 1933, Muskigum College; M.S.W., 1938, University of Pittsburgh.
- PAUL L. SCHWARTZ, *Sociology*
B.A., 1937, City College of New York; M.S.S.W., 1942, University of Pittsburgh.
- KATHERINE B. SEVEDGE, *Education*
B.S., 1933, M.A., 1952, Memphis State University.
- WALTER M. SIMMONS, *Geography*
Executive Director, Memphis Housing Authority
- VAUGHN ELDEN STIMBERT, *Psychology*
B.S., 1956, M.A., 1963, Memphis State University.
- HENRY V. SUTTON, *Speech and Drama*
B.S., 1959, Memphis State University; LL.B., 1961, Vanderbilt University.
- MINAPERLE TAYLOR, *Voice*
B.A., 1923, M.M., 1925, Chicago Musical College.
- JAMES HARVEY TERRY, *Single Reed Instruments*
B.S., 1952, M.A., 1961, Memphis State University.
- BILLY JOE VAUGHN, *Industrial Arts*
B.S., 1955, M.S., 1959, Memphis State University.
- FRANCOISE MARIE VEDRINE, *Modern Languages*
Ecole Supérieure de Commerce (Reims).
- NICHOLAS JOHN VERGOS, *Double Reed Instruments*
B.S., 1955, Memphis State University.
- EMMA LILLI VOLKOVA, *German*
B.A., 1931, Kiev Institute.
- JEAN D. VON REDLICH, *Speech and Drama*
B.A., 1949, M.A., 1954, University of Alabama.
- EVELYN MCKINSTRY WARR, *Curriculum and Instruction*
B.A., 1930, University of Mississippi; M.A., 1952, Memphis State University.
- THOMAS E. WELLMAN, *Geography*
B.S., University of Texas
- JAMES EMERSON WILFORD, JR., *Biology*
B.S., 1961, M.A., 1963, Memphis State University.

ERNEST BLAND WILLIAMS III, *School of Law*

B.A., 1949, LL.B., 1954, Vanderbilt University.

GRADY G. WOODY, *Education*

B.S., 1951, Union University; M.A., 1958, Memphis State University.

ROSESTELLE BACH WOOLNER, *Education*

B.S., 1958, M.A., 1960, Memphis State University.

THE FACULTY COUNCIL

OFFICERS

PROFESSOR RALPH L. HATLEY, *Chairman*

ASSOCIATE PROFESSOR ROBERT W. MCGOWAN, *Vice-Chairman*

ASSOCIATE PROFESSOR ELIZABETH C. PHILLIPS, *Secretary*

Members whose terms expire May, 1964:

PROFESSORS HATLEY and WYNN

ASSOCIATE PROFESSORS LARRABEE and MCGOWAN

ASSISTANT PROFESSOR REEVES

Members whose terms expire May, 1965:

ASSOCIATE PROFESSORS OSBORNE, PHILLIPS, ROBERTS, and
SCOTT

ASSISTANT PROFESSORS BROTHERTON, WILLIAM R. INGRAM,
POWELL, and SOBOL

Members whose terms expire May, 1966:

PROFESSORS BANNON, SISCO, AND WHITE

ASSOCIATE PROFESSORS CHILDERS AND CLAYPOOL

ASSISTANT PROFESSORS MOORE AND PATTERSON

STANDING UNIVERSITY COMMITTEES

1963-1964

The President is a member of all committees; the first member named on each committee is the chairman; the use of a position title indicates *ex officio* membership. Appointments extend from September through August of the academic year.

ATHLETIC: DEAN ROBISON; MR. NEWPORT; PROFESSORS COLT-HARP, HAYNES, R. W. JOHNSON, LARRABEE, and MITCHELL; ASSOCIATE PROFESSOR DAVIS.

BUILDINGS AND GROUNDS: PROFESSOR STREET; ASSOCIATE PROFESSORS MCGOWAN, RAPP, and JACOBS; ASSISTANT PROFESSOR BROTHERTON; MR. HERZOG.

THE DESOTO: PROFESSOR WILLIAMS; MR. NEWPORT; PROFESSOR DANA JOHNSON; President of the Student Government Association; Editor of *The DeSoto*.

DISCIPLINE: DEAN ROBISON, DEAN RAWLS, DEAN PRATT; PROFESSOR MCCAIN; ASSOCIATE PROFESSOR ROANE; ASSISTANT PROFESSOR HACKETT.

ENTRANCE AND CREDITS: DEAN CLARK; PROFESSORS RUMBLE and SISCO; ASSOCIATE PROFESSORS VIRGINIA JOHNSON and SIMMONS; ASSISTANT PROFESSOR RILEY.

EXTENSION: PROFESSOR CRADER; DEAN CLARK; PROFESSORS SAM JOHNSON, MARKLE, and WALTER SMITH.

FACULTY TENURE: PROFESSORS BANNON and SISCO; ASSOCIATE PROFESSORS COBB and RIGGS; ASSISTANT PROFESSOR PATTERSON.

LIBRARY: PROFESSOR BOOM; MR. ELLISON BROWN; PROFESSOR MULLINS; ASSOCIATE PROFESSORS NOTHERN and PHILLIPS.

PRE-ENGINEERING ADVISORY: PROFESSOR CLAYPOOL; ASSOCIATE PROFESSOR MCBRIDE; ASSISTANT PROFESSORS BETHANY and O'KELLEY; MR. GERRY WHITE.

PRE-LAW ADVISORY: PROFESSOR BUELL; DEAN COX; ASSOCIATE PROFESSOR LONNIE WHITE; ASSISTANT PROFESSORS SHARP and STUTSMAN; MR. COCHRAN.

PRE-MEDICAL ADVISORY: PROFESSOR HOLMES; ASSOCIATE PROFESSOR HAYES; ASSISTANT PROFESSORS COTHAM, SIMONTON, and OMAR SMITH.

PUBLIC PROGRAMS: PROFESSOR HARRIS; DEAN RAWLS; PROFESSORS BENGE, BROWNLEE, and TONNING.

RELIGIOUS ACTIVITIES: PROFESSORS SPINDLER, EVANS, and EUGENE FOX; ASSOCIATE PROFESSOR FREEMAN; ASSISTANT PROFESSORS ABBETT and MOORE.

SCHOLARSHIPS AND LOANS: MR. EUBANK; DEAN RAWLS, DEAN PRATT; PROFESSOR THOMPSON; ASSOCIATE PROFESSOR MATTHEWS.

STUDENT ACTIVITIES: DEAN RAWLS; MR. NEWPORT; PROFESSOR JENNINGS; ASSISTANT PROFESSORS PARK and POWELL; presidents of the freshman, sophomore, junior, and senior classes.

STUDENT ACTIVITIES CONTROL BOARD: DEAN RAWLS, DEAN ROBISON, DEAN PRATT; ASSOCIATE PROFESSOR MYRTLE S. COBB; president of the Inter-Fraternity Council; president of the Panhellenic Council; president of the Women's Inter-Dormitory Council; and the following independent student: RENE PLAISANCE.

STUDENT ELECTIONS: DEAN ROBISON, DEAN RAWLS, DEAN PRATT.

TELEVISION: PROFESSOR CALVIN STREET; PROFESSORS IJAMS, SAM JOHNSON, MARKLE, and WALTER SMITH.

THE TIGER RAG: ASSISTANT PROFESSOR SPENCER; MR. NEWPORT; PROFESSOR SCHIRMER; ASSISTANT PROFESSOR TREECE; president of the Student Government Association; editor of *The Tiger Rag*.

TEACHER EDUCATION POLICY: PROFESSORS SAM JOHNSON (non-voting), COLTHARP, HATLEY, JENNINGS, and RUMBLE; ASSOCIATE PROFESSORS NOTHERN and PHILLIPS; MRS. RICHARDSON (non-voting).

THE UNIVERSITY CAMPUS SCHOOL

- GRADY G. WOODY (1958), *Principal*
B.S., 1951, Union University; M.S., 1958, Memphis State University.
- ROSE MARIE ALEXANDER (1963), *Supervising Teacher, Fourth Grade*
B.S., 1963, Memphis State University.
- MARY ELIZABETH ANDERSON (1951), *Supervising Teacher, Third Grade*
B.S., 1947, Memphis State University; M.A., 1951, George Peabody College.
- SOPHIA CLARK BROTHERTON (1961), *Supervising Teacher, First Grade*
B.S., 1956, M.A., 1961, Memphis State University.
- RENA OPAL COLEMAN (1931), *Supervising Teacher, Third Grade*
B.A., 1925, Texas Woman's University; M.A., 1932, George Peabody College.
- DOROTHY SIMMONS DAUGHERTY (1958), *Supervising Teacher, First Grade*
B.S., 1952, M.A., 1956, Memphis State University.
- MARY CRUNK DUNN (1924), *Supervising Teacher, Second Grade*
B.S., 1928, M.A., 1933, George Peabody College.
- DONNA EDDINS (1963), *Supervising Teacher, Kindergarten*
B.S., 1961, M.A., 1963, Memphis State University.
- SARAH LEE FOSTER (1955), *Supervising Teacher, Third Grade*
B.S., 1952, University of Tennessee; M.A., 1957, Memphis State University.
- ELBA GANDY (1946), *Supervising Teacher, Music*
B.M.E., 1944, Louisiana State University; M.M., 1946, Northwestern University.
- GERALDINE H. GARRETT (1962), *Fourth, Fifth, and Sixth Grades*
B.S.E., 1949, Arkansas State Teachers College.
- PEGGY WATSON GOVAN (1960), *Instructor in Art*
B.S.E., 1956, Arkansas State Teachers College; M.A., 1961, Memphis State University.
- MILDRED MAY GRAGG (1949), *Supervising Teacher, Fifth Grade*
B.S., 1941, Memphis State University; M.A., 1948, George Peabody College.
- PATRICIA HESTER (1962), *First, Second, and Third Grades*
B.S., 1956, Louisiana State University; M.A., 1962, Memphis State University.
- GEARY KRILL IRWIN (1959), *Supervising Teacher, Nursery School*
B.A., 1945, University of California.

JANET TADLOCK JENNINGS (1952), *Supervising Teacher, Fourth Grade*

B.A., 1940, M.A., 1946, University of Kentucky.

JOHN ETHEL MEASELLS (1946), *Librarian*

B.S., 1931, Memphis State University; M.A., 1946, B.S. in L.S., 1951, George Peabody College.

AGNES ANN MOORE (1957), *Supervising Teacher, Fifth Grade*

B.S., 1954, M.A., 1957, Memphis State University.

KITTIE DAVIS NOWLIN (1963), *Supervising Teacher, Fifth Grade*

B.S., 1952, M.A., 1963, Memphis State University.

ANNIE LAURIE PEELER (1930), *Supervising Teacher, Sixth Grade*

B.A., 1913, Meridian Woman's College; B.S., 1929, M.A., 1930, George Peabody College.

AVIS ALLEN PENTECOST (1963), *Supervising Teacher, First Grade*

B.S., 1961, Memphis State University.

FRANCES HOLMES PETERS (1955), *Supervising Teacher, Sixth Grade*

B.S., 1942, M.A., 1957, Memphis State University.

WILMAH SCOTT TATOM (1962), *Supervising Teacher, Sixth Grade*

M.S., 1960, Memphis State University.

JULIA ETTA THOMAS (1947), *Supervising Teacher, Second Grade*

B.S., 1947, Memphis State University; M.A., 1951, George Peabody College.

EVELYN MCKINSTRY WALKER (1949), *Supervising Teacher, Fifth Grade*

B.A., 1930, University of Mississippi; M.A., 1952, Memphis State University.

LUCILLE WALLIS (1961), *Supervising Teachers, Second Grade*

B.S., 1958, Memphis State University.

MARY EVELYN WARR (1949), *Supervising Teacher, Fifth Grade*

B.A., 1930, University of Mississippi; M.A., 1952, Memphis State University.

ROSESTELLE BACH WOOLNER (1959), *Supervising Teacher, Kindergarten.*

B.S., 1958, M.A., 1960, Memphis State University.

THE JOHN WILLARD BRISTER LIBRARY

- ELLISON LANGLEY BROWN, B.A., M.A., B.S. in L.S., *Librarian*
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 DORRICE BRATCHER, B.A., B.S. in L.S., *Reference Librarian*
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 JOAN GRINNELL, B.A., *Head Cataloger*
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 MARTHA LOUISE ODOM, *Stenographer and IBM Operator*

*Retired January, 1964

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CHUCALISSA INDAN VILLAGE AND MUSEUM

CHARLES H. NASH, B.A., *Director*
 L. D. JOHN and GRADY JOHN, *Choctaw Indian Staff*

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(*Memphis Community Television Foundation*)

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 FRED WILLIS, B.S., B.J., M.A., *Program Information Director*
 JOHN S. PETERSON, B.S., *Production Manager*
 ROBERT R. NOLLNER, *Chief Engineer*

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John Y. Eubank, Jr., B.S., M.A., *Student Aid Officer*
Gertrude L. Austin, *Secretary*

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Eugene W. Lambert, B.S.E., M.Ed., Ed.D., *Director of Athletics*
Gabe C. Hawkins, B.S., M.A., *Assistant Director of Athletics*
George Wine, B.A., *Sports Information Director*
Arlene Glass, *Secretary to the Director of Athletics*
Ruby Puddephatt, *Ticket Manager*
Lillian Raffety, *Stenographer*
Joyce McCall, *Stenographer*

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Leo J. Davis, B.A., M.A., *Coordinator of Veterans' Affairs*
Rebecca P. Davis, B.A., *Secretary*

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Shirley H. Bennett, *Stenographer*

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Ray L. Herzog, *Engineer and Maintenance Superintendent*
Robert Clardy, *Assistant Engineer and Maintenance Superintendent*
Norman O. Lee, *Storeroom and Supply Clerk*
Sarah Crizer, *Secretary*

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Cornell C. Faquin, Jr., M.D., *University Physician*
Arthur Gage Hudson, M.D., *University Physician*
Walter H. Murphy, M.D., *University Physician*
Florence Virginia Illing, G.N., B.S., M.A., *Director of Health Services*
Ann Conner, R.N., *Assistant Nurse*
Ona Walton, R.N., *Assistant Nurse*
Jean Heare, *Stenographer*

THE UNIVERSITY BOOKSTORE

Margaret Humphreys Warno, *Manager*
Betty B. Shannon, *Secretary*
Janie Ruth Benefield, *Cashier*

THE DORMITORIES

Bobbie Pratt, *Hostess, East Hall*
Helen M. Buckner, B.S., M.A., *Head Resident, Mynders Hall*
Mary E. Gaines, *Assistant Hostess, Mynders Hall*
Doris Elizabeth Herzog, *Hostess, North Hall*
Ruth Goltman, B.S., M.S., *Hostess, Panhellenic Building*
Ila B. Freeman, *Head Resident, Scates Hall*
Myra D. Test, *Head Resident, Nellie Angel Smith Hall*
Lucille Marie Brookings, *Assistant Hostess, Nellie Angel Smith Hall*
Velma W. May, *Head Resident, West Hall*
Anne Merrill Guest, *Assistant Hostess, West Hall*

THE UNIVERSITY POST OFFICE

Bernice Ruth Berryhill, *Postal Clerk*

THE UNIVERSITY TELEPHONE EXCHANGE

Emily H. Thomas, *PBX Operator*

Part Two

DESCRIPTION OF THE UNIVERSITY

HISTORICAL STATEMENT

IN 1909 the General Assembly of the State of Tennessee enacted a General Education Bill which provided for the establishment and maintenance of normal schools for the training of teachers, one such school to be located in each of the three grand divisions of the state. In generous support of this proposal, Memphis and Shelby County contributed \$350,000 and a site of approximately eighty acres near the eastern edge of the city. On September 15, 1912, West Tennessee State Normal School was formally opened.

During the intervening years the name, nature, and functions of this school have undergone numerous changes. In 1925 it became a senior college, and the name was changed to West Tennessee State Teachers College. In 1941 the liberal arts curriculum was considerably enlarged, and the name was changed to Memphis State College. In 1950 a graduate school was added, and the undergraduate program was reorganized into three schools. On July 1, 1957, by action of the Tennessee State Legislature, the school was designated Memphis State University.

ORGANIZATION

Memphis State University comprises The School of Arts and Sciences, The School of Business Administration, The School of Education, The School of Law, The Department of Industrial Arts, and The Graduate School*. The regular program of the University is supplemented by The Evening Division, The Summer Session, and The Extension Division, the various offerings of which afford greatly increased opportunities for the people of this area to avail themselves of the facilities and services of the University.

AIMS OF THE UNIVERSITY

Memphis State University has aimed in the past and continues in the present to offer an educational program compounded of those three elements traditionally associated with institutions of higher learning: teaching, research, and public service.

The primary purpose of the University is to provide experiences through which students may attain a high degree of intellectual maturity, social stability, and professional competence. Through the variety of courses offered by the various schools of the University it is hoped that the student's perspective will be so enlarged that

*The Graduate School is not described in this catalog; requests for the Bulletin of The Graduate School should be addressed to the Dean of that school.

the choices he makes in life will be cogent ones and that he will become a fully awakened and involved individual.

Research in many areas and on all levels is vital if our knowledge and comprehension are to be expanded. Because of the unexpected and invaluable results which have come from research undertaken without any immediate goal in view, the distinctions between pure research and applied research have become blurred. From the universities, the communities of scholars, each seeking truth in his own way, have come the most significant discoveries of our age. Memphis State University is constantly seeking to increase and improve its facilities in order to make available to its faculty and students the time, tools, and atmosphere necessary for the kinds of research which the citizens of the area have every right to expect.

Teaching and research are in themselves, of course, part of the public service which the University offers; but, in addition to these, the faculty, staff, and students make other valuable contributions to the public good. Both the physical facilities and the talents of the personnel are now utilized in many ways, and the University is always receptive to suggestions as to how the services may be expanded in order to be of added value to the citizens of the metropolitan area, the state, and the surrounding region.

ACCREDITATION

Memphis State University is fully accredited by The Southern Association of Colleges and Secondary Schools, and is a member of The Association of American Colleges, The Tennessee College Association, The American Association of Colleges for Teacher Education, and the American Council on Education. The School of Education is accredited by the National Council for Accreditation of Teacher Education.

The honorary and professional societies maintaining chapters at the University are listed on page 79.

The American Association of University Women, of which the University is a corporate member, admits women graduates of Memphis State University to national membership.

GOVERNMENT

The government of Memphis State University is vested in the Tennessee State Board of Education; the Governor is an *ex officio* member of the board, and the Commissioner of Education is its

chairman. The other twelve members of the board are appointed by the Governor, four members from each of the three grand divisions of the State. Offices of the Board are located in the Cordell Hull Building, Nashville.

The chief administrative officer of the University is the President. He is assisted and advised by members of the administrative staff and the faculty organized into two official bodies, the Administrative Council and the Faculty Council. Each school of the University is administered by a dean, each individual department by a chairman.

PHYSICAL FACILITIES

ACADEMIC BUILDINGS

The Administrative Building, the first academic building on the campus, was completed in 1912; it has been enlarged and remodeled several times and is completely air conditioned. It houses most of the administrative offices of the University and contains classroom and office space for several departments in The School of Arts and Sciences. The Academic Computer Center is also located in this building.

Manning Hall, built in 1930 and named in honor of the University's first instructor in science, Priestly Hartwell Manning, provides the departments of Chemistry and Physics, and Home Economics with classrooms, offices, laboratories, a science auditorium, and faculty and graduate research facilities.

Johnson Hall, completed in 1958, is named in honor of Dr. Rayburn W. Johnson, Professor of Geography, and his late wife, Ethel B. Johnson. Air conditioned throughout, it contains classrooms, laboratories, offices, a map library, a conference room, and an auditorium for the departments of Geography, Psychology, and Sociology and Anthropology. On the ground floor is the Ethel B. Johnson Reception Room, dedicated to the use of the Memphis State University Faculty Wives Club.

Jones Hall, named in honor of Otis Henry Jones, University bursar from 1925 to 1937, was completed in 1960. It is completely air conditioned and provides classroom and office space for the departments of Air Science, Art, Classical Languages, and Modern Languages (with an electronic language laboratory). It also

houses the University Post Office and the office of the coordinator of Veterans' Affairs.

The School of Business Administration Building is a new four-story, air-conditioned structure with an adjoining auditorium; it contains administrative offices, classrooms, laboratories, and offices for the departments of Accountancy, Economics and Finance, Political Science, Management, Marketing, Secretarial Science and Office Management, and the Bureau of Business Research.

The Industrial Arts Building, built in 1941, and enlarged in 1946, and 1960, provides classrooms, offices and extensive laboratory facilities for drafting, surveying, woodworking, metalworking, ceramics, and general shop practices. The University Printing Plant is located in this building.

The Memphis State University Campus School, operated in cooperation with the Board of Education of the City of Memphis, provides air-conditioned facilities for training student teachers and opportunities for observing good teaching procedures. In addition to regular classrooms it features flexible spaces, learning cubicles, one way observation glass, sound controls, connections for television broadcasts and reception, and modern facilities to meet the needs of modern public school teaching. These facilities are also utilized in faculty and graduate demonstration, research and experimental projects.

The Field House, built in 1951 and enlarged in 1958 and 1964, contains basketball courts, gymnasiums, classrooms, a stage, seats for 4000, and offices for the Department of Health and Physical Education, and for athletics.

The Biology Building, which is to be completed in 1964, is an air-conditioned building designed to meet the increasing needs of the Department of Biology for classrooms, laboratories, specimen areas, research facilities, and an auditorium.

The School of Education Building, an air-conditioned structure also due for completion in 1964, will house the administration and faculty offices of the School of Education as well as general and special classrooms, laboratory and research areas (including a curriculum laboratory), and an auditorium. The offices of the State Board of Education and the University of Tennessee Graduate Program will also be located in this building.

The Law School Annex, consisting of one wing of the former campus school, provides air-conditioned classrooms (including one arranged as a typical courtroom) and offices for the Law School. An air-conditioned building which is immediately adjacent, houses the law library and study facilities.

THE LIBRARY

The University Library, named in honor of former President John Willard Brister, was built in 1927; it has since been considerably enlarged, the latest addition having been completed in 1963. The collection at present numbers over 170,000 volumes, including microfilm and microprint. The microprint includes all U.S. Government publications since 1956. Subscriptions and files are maintained for general and specialized periodicals.

DORMITORIES AND OTHER HOUSING

There are five residence halls for women, providing accommodations for 914 women students; *Mynders Hall*, *West Hall*, *Scates Hall*, *Nellie Angel Smith Hall*, and a new six-story, air-conditioned dormitory which is not yet named.

There are four residence halls for men, providing accommodations for 566 men students; *Hayden Hall*, *North Hall*, *East Hall*, and *South Hall*.

Vets Village is a group of frame buildings containing 67 apartments; built after World War II to house veterans and their families, these units are now open to all married students, although veterans retain preference. Applications for occupancy should be made to the Dean of Men.

AUXILIARY BUILDINGS

The Old Gymnasium was in 1961 converted into studio and office space for WKNO-TV, the educational television station operated by the Memphis Community Television Foundation.

The Cafeteria, with a seating capacity of 500, adjoins *The Student Center*, which contains a soda fountain, two snack bars, and facilities for group meetings, games, and dancing. An additional snack bar is located in a wing of the former campus school building. All of these facilities are air-conditioned.

The Panhellenic Building, erected in 1959 and enlarged in 1963 by the national sororities with chapters on the campus, is an air-conditioned facility which affords suites for ten sororities and a hostess, guest room, kitchen, and ballroom.

The University Auditorium, located in the air-conditioned Administration Building, seats 1200 and has a stage fully equipped for dramatic and musical productions.

The Bookstore provides air-conditioned, self-service shopping facilities for text-books, and school supplies and equipment.

CHUCALISSA INDIAN VILLAGE AND MUSEUM

Chucalissa, prehistoric Indian town and museum, situated in the southwest corner of Shelby County on Mitchell Road, is operated by the University as a research and training facility. Excavation of the site is being undertaken, with students performing the archaeological field work under staff supervision. Adjoining acreage serves as a biological field station. Chucalissa also provides indoor and outdoor archaeological exhibits, open to the public throughout the year.

Part Three

ADMISSION TO THE UNIVERSITY

ADMISSION TO THE UNIVERSITY

INQUIRIES about admission to any school of the University should be addressed to the Dean of Admissions. The admissions office receives and processes all applications, evaluates credentials, and issues cards of admission to qualified applicants. Students may enter at the beginning of either of the regular semesters or at the beginning of either of the two terms of The Summer Session.

ADMISSION OF FRESHMEN

An applicant for admission as a freshman may qualify under any one of six plans:

1. By a transcript of credits showing graduation from an approved or accredited high school based on the completion of a four-year course of study. Students who do not present one unit of American history are required by Tennessee law to enroll for the course upon initial enrollment.
2. By High School Equivalency Diploma. Veterans and non-veterans over 21 years of age may be admitted by the equivalency diploma, provided it is issued upon a minimum average GED test score of 50, with no single score below 35.
3. By General Education Development tests. Veterans who are not high school graduates and who have at least 12 months of service may be admitted conditionally by GED test scores averaging 45 or more, with no single score below 35.
4. By certificate and examination. An applicant from an unapproved high school who presents a satisfactory certificate will be required to take examinations only in subjects covering four units of high school work taken in the senior year.
5. By examination. An applicant who does not present a satisfactory certificate may be admitted by passing examinations on sixteen units required for graduation in an approved high school.
6. Young men and women who are 21 years of age and over, and who have not completed four years of high school work, may be admitted and permitted to take courses for which they are prepared, provided that they satisfy all entrance requirements before becoming degree candidates. Such students should, if possible, qualify for the high school equivalency diploma.

ADMISSION OF TRANSFER STUDENTS

Admission with advanced standing will be granted to a student who has honorable dismissal from an accredited institution and whose cumulative quality point average meets the following minimum standards, on a scale in which a grade of A gives 4 quality points:

- With two semesters in residence: a quality point average of 1.5000
- With four semesters in residence: a quality point average of 1.8000
- With six semesters in residence: a quality point average of 1.9000
- With more than six semesters in residence: a quality point average of 2.0000.

A transfer student who has failed his work at another institution and is not entitled to continue there will not be admitted to the University except under unusual circumstances. A transfer student failing to meet the above entrance requirements may be refused admission, or may be admitted on scholastic probation, or on any other condition that may seem advisable. A transfer student who meets these qualifications, but whose average for the last term in residence is less than 1.5000, will be entered on scholastic probation. The probation must be removed within the first semester of residence.

Credits will be accepted only for courses which are equivalent to those offered at Memphis State University toward a degree. The Dean of Admissions will evaluate the transcript of each transfer student to show the credits acceptable to the University. The dean of the school to which the student is admitted will inform the student the extent to which his credits will apply toward the degree sought.

All credits are transferred at their original grade; if the quality point average on such transferred credits is less than C, the cumulative quality point average must be brought up to a C by higher grades at Memphis State University before the student can qualify for graduation. (See page 85 for the method of computing quality point averages.) Every student must qualify for graduation on the basis of every course attempted, here and elsewhere. In no case may transferred grades be used to raise the student's quality point average on courses taken at Memphis State University; his average on all such courses must be C (2.0000).

A student submitting advanced standing from an unaccredited institution will be given consideration. Each case will be considered individually, and credit may be accepted tentatively. In no case will credit be recorded until it has been validated by satisfactory work at this university for one or more semesters.

Advanced standing of not more than 72 semester hours will be accepted from a junior college. Credit earned at a junior college after a student has completed 72 semester hours of college work from any source will not be accepted.

Transfer credit from vocational schools or vocational colleges not accredited by the Tennessee State Board of Education and/or The Southern Association of Colleges and Secondary Schools (or corresponding agencies for other states and regions of the United States) will not be accepted toward a degree or toward teacher certification.

A student who has attended any accredited or approved institution of higher learning will not be permitted to enroll as a beginning freshman.

PROCEDURES FOR ADMISSION

1. *Application.* A written application on a form supplied by the University is required. The Application for Admission form, which includes instructions for completing arrangements for entrance, must be secured from the office of the Dean of Admissions, completed in ink or by typewriter, and returned to the admissions office.

2. *Credentials.* A student entering directly from high school should request his principal to mail to the Dean of Admissions an official transcript of his high school work. A student entering from another college or other colleges should request the registrar of each college attended to mail to the Dean of Admissions an official transcript of his college work. *In every case credentials must include a complete record of all previous secondary schools and all collegiate institutions attended, regardless of credit earned, and regardless of whether or not credit is desired.* To prevent delay in completing registration, all credentials, including the completed application form and the official transcript, should be on file in the office of the Dean of Admissions at Memphis State University before the beginning of the term for which application is made. All transcripts become the property of the University and can not be returned.

3. *Age.* An applicant must be at least 16 years of age.

4. *Character.* The applicant must submit evidence of good moral character (usually the recommendation of the high school principal). All applicants must have honorable dismissal from the last high school or college attended.

5. *Entrance Examination.* All applicants for admission to Memphis State University must take an entrance examination. They may take either (1) the tests administered through the American College Testing Program or (2) the Scholastic Aptitude Test of the College Entrance Examination Board. Test scores should be sent to the office of the Dean of Admissions, Memphis State University. High school students are urged to take one of these examinations during the senior year. The ACT examination is administered in designated centers in November, February, April, and June. The SAT of the CEEB is given in designated centers in December, January, March, and May. For further information on date and location of centers, the applicant should confer with his counselor or his high school principal. Information and application forms of these tests may also be obtained as follows: for the American College Testing Program—the ACT State Co-ordinator; and for the SAT of the College Entrance Examination Board—Educational Testing Service, P. O. Box 592, Princeton, New Jersey, or P. O. Box 27896, Los Angeles 27, California.

6. *Health Card.* Each student is required, as a condition of admission, to file with the Dean of Admissions a medical history and report of physical examination on the Health Service Record Card provided by the University. Each candidate must be free from communicable disease; must show evidence of vaccination for small-pox within the past five years; and must show a satisfactory chest x-ray or tuberculin skin test within the past six months. It is strongly recommended that all students be immunized against tetanus.

FORMER STUDENTS

Former students who wish to return to the University must file a formal application for readmission; application forms, available from the office of the Dean of Admissions, must be completed in ink or by typewriter and returned to the Dean of Admissions. If the student has enrolled at another college since last attending Memphis State University, he must have a transcript from the other college submitted and approved before he may re-enter. Applications will receive favorable consideration only if the applicant is eligible for readmission under all University regulations.

CREDIT FOR SERVICE IN THE ARMED FORCES

Veterans who have completed one year or more of full-time, extended active military service will be excused from taking the required physical education activity courses and, in addition, will be

allowed six semester hours (less credit already earned) of health and physical education credit upon presentation of a copy of their discharge form (DD Form 214) to the office of the Dean of Admissions. Reservists who have served six months active duty under the provisions of the Reserve Forces Act of 1955 are not considered veterans; they may, however, be excused from taking the required physical education activity courses upon the presentation of a copy of their discharge form (DD Form 214) to the chairman of the Department of Health and Physical Education.

Part Four

GENERAL INFORMATION

FEES AND FINANCIAL REGULATIONS

(The following regulations apply to undergraduate students only; for tuition and fees for graduate students see the Bulletin of The Graduate School.)

Tuition. Tuition is free for students who are residents of Tennessee; non-resident students are charged \$82.50 per semester.

Registration Fee. A single composite registration fee of \$82.50 per semester is charged for all full-time students who are residents of Tennessee; non-residents are charged \$165.00 (including the tuition fee). This fee covers registration, student activities, and instructional charges.

Part-Time and Off-Campus Students: Fees for part-time students and for students enrolled in classes which meet off the campus are as follows:

Undergraduates, residents of Tennessee: \$7.50 per semester hour

Undergraduates, non-residents of Tennessee: \$15.00 per semester hour

Graduates, residents of Tennessee: \$9.00 per semester hour

Graduates, non-residents of Tennessee: \$18.00 per semester hour

The Summer Session

Undergraduates, residents of Tennessee: \$7.50 per semester hour, or \$55.00 for the complete two-term session

Undergraduates, non-residents of Tennessee: \$15.00 per semester hour, or \$110.00 for the complete two-term session.

NOTE: The student must indicate his choice of payment plan at the time of his initial summer session registration. He may not shift from one plan to the other after his initial registration. The \$55.00 fee entitles him to register for a maximum of 14 semester hours in two terms. *No part of this fee is returnable* (unless the student withdraws within the period during which refunds are allowed); that is, if the student registers for less than the maximum number of hours, or if he attends for only one term, no part of the \$55.00 payment will be refunded. If he wishes to register for only one term or for less than 8 semester hours for two terms, it will, of course, be to his advantage to pay at the rate of \$7.50 per semester hour.

Fees for Private Lessons in Music. Music 050, 051, 052, 053, 054, 056, 151, 152, 153, 154, 156, 302, 303, 305, 306, 350, 351, 352, 353, 354, 356, 405, 406 have the following fees:

One thirty-minute lesson weekly, per semester.....\$ 33.75

Two thirty-minute lessons weekly, per semester..... 67.50

Music 059, 159, and 359 have the following fees:

One thirty-minute lesson weekly, per semester..... 60.00

Two thirty-minute lessons weekly, per semester..... 120.00

Room Rent. Room rent is as follows:

\$ 90.00 per semester for Mynders, West, Nellie Angel Smith, North, and East

\$ 67.50 per semester for Scates and Hayden

\$112.50 per semester for the air-conditioned dormitories

An application for a dormitory room must be accompanied by a check or money order for \$25.00 which remains on deposit for the academic year or until the student withdraws. Refunds, less charges for lost keys and damages, are made in June upon certification of the Dean of Women or the Dean of Men. The student, however, may previously have requested that this deposit be transferred as a deposit on a room for the following fall term.

The total deposit is refundable upon certification of the Dean of Women and the Dean of Men up to July 1st for a room reserved for the following fall term; after that date and prior to September 1st, only \$10.00 of the deposit will be refunded. Cancellation for the spring and summer terms must be made not later than 15 days before the first day of registration for the term for which the reservation has been made if the deposit is to be refunded. Reservations must be made each spring for the following fall.

To secure a room for the summer, the student must pay \$25.00 in advance through the offices of the Dean of Women or the Dean of Men. To secure a room for the entire ten weeks, the student must pay an additional \$25.00 upon registration.

Dormitories are not open for the inter-session and post-session courses.

In men's housing a housing contract must be signed by both the student and his parent or guardian, unless the student has reached his 21st birthday before the date of signing.

According to a ruling of the State Board of Education, when the number of out-of-town students admitted to dormitory residence reaches 25% of the total number of students for whom space is available, no additional out-of-state students shall be admitted to residence in the dormitories if a Tennessee student who lives outside the University's commuting area is being denied dormitory residence.

Students are responsible for damage to or breakage of dormitory property.

(For further information concerning dormitory accommodations, see pages 56 and 69.)

Cafeteria. The cafeteria is open to all students. The approximate cost of meals per day is \$2.00.

Late Registration Fee. Registration should be completed within the official registration period announced in the catalog and the Schedule of Classes. Registration is not complete until all fees for the semester have been paid. For registration after the end of the official period, an extra fee of \$1.00 each day is charged. Students who delay more than thirty days in completing their registration will not be allowed to register the following semester.

Fee for Late Examination. The student must pay a fee of \$1.00 for each final examination taken late. A receipt from the office of the Business Manager will admit the student to any late examination that he is entitled to take. The receipt must be forwarded to the Records Office by the instructor along with the final grade as a requisite for the recording of the final grade of the course. Students are allowed to take late or special examinations only with the approval of the dean of the school concerned and after the payment of the late examination fee.

Transcript Fee. One transcript of the student's academic record at Memphis State University is furnished free. For each additional transcript, a fee of \$1.00 is charged. Transcripts are issued only at the request of the student or his authorized agent.

Diploma Fee. Degree candidates pay a fee of \$15.00, which includes the fee for the diploma, the rental of cap and gown, and other incidentals connected with commencement exercises. This fee is payable in the office of the Business Manager thirty days before graduation.

Breakage Cards. Students enrolled in classes in chemistry and physics are required to purchase breakage cards. Any unused balance is refunded at the close of the semester.

Book Handling Charge. The University Bookstore charges a ten per cent handling fee on each book returned.

Payment and Refund of Fees.

1. All fees are payable in advance.
2. If a student withdraws from the University within seven days after the beginning of classes for the semester, a refund will be made of 80% of fees; each week thereafter, the amount will be reduced 20%.
3. The diploma fee is not refunded.

4. Rooms are rented by the semester in advance; no reduction is made for late registration or for an absence of less than two weeks. No refund of room rent will be made without withdrawal from the University unless authorized by the Dean of Women or the Dean of Men.
5. No student may enroll, graduate, or receive a transcript of his record until all accounts are settled. The term "account" includes any indebtedness to the University.

DORMITORY REGULATIONS

Students entering Memphis State University and wishing to live in the dormitories should make their applications at the earliest possible date. Reservations for the women's dormitories are made with the Dean of Women, for the men's dormitories with the Dean of Men; application forms are available in the offices of the deans.

An application for a dormitory room must be accompanied by a check or money order for \$25.00 which remains on deposit for the academic year or until the student withdraws. Refunds, less charges for lost keys and damages, are made in June upon certification of the Dean of Women or the Dean of Men. The student, however, may previously have requested that this deposit be transferred as a deposit on a room for the following fall term.

The total deposit is refundable upon certification of the Dean of Women or the Dean of Men up to July 1st for a room reserved for the following fall term; after that date and prior to September 1st only \$10.00 of the deposit will be refunded. Cancellation for the spring and summer terms must be made not later than 15 days before the first day of registration for the term for which the reservation has been made if the deposit is to be refunded. Reservations must be made each spring for the following fall.

To secure a room for the summer, the student must pay \$25.00 in advance through the offices of the Dean of Women or the Dean of Men. To secure a room for the entire ten weeks, the student must pay an additional \$25.00 upon registration.

Permission is not granted for women students to live in apartments.

After registration, married students are eligible to apply to the Dean of Men for apartments in Vets Village. Preference in the assignment of space is given to current students (veterans and non-veterans) and then to veterans.

HOSPITALIZATION

Emergencies which require hospitalization of dormitory students are often accompanied by confusion and dangerous delays while parents are notified in order to clear hospital admission for the student who is not covered by hospitalization insurance. For the welfare of the dormitory student and because the University can assume no financial responsibility for hospitalization, it is strongly recommended that each dormitory student be covered by a family policy or be enrolled in the Memphis State University Student Insurance Plan, which has University support and approval. For further information concerning health services, see page 75.

STUDENT CONDUCT

It is assumed that applicants for admission to Memphis State University are ladies and gentlemen, and every consideration will be shown them as such until, by their own acts, they forfeit the confidence reposed in them. Rules of government and regulations in regard to general conduct are, of course, necessary. Whenever any number of people live together, each must forfeit some individual privileges for the general good. The rules and regulations at Memphis State University are of such nature as to secure ready conformity and also sympathy and cooperation on the part of students in making them effective. These rules and regulations are outlined in the Student Handbook, distributed to all students at the time of initial registration; each student is expected to keep this handbook and use it as a guide during his residence at Memphis State University.

AUTOMOBILES ON THE CAMPUS

Each person who expects to operate and park an automobile on the campus of Memphis State University must register it in Room 264, Administration Building, and receive an official permit. Permits are valid from September through August. Limited parking space necessitates close regulation of traffic. Each student is responsible for acquainting himself with the campus traffic and parking regulations, copies of which are available in Room 264, Administration Building.

Because zoning restrictions require most dormitory students to leave their automobiles on the city streets, and because they are considered an academic hazard, these students are urged to leave their automobiles at home.

AIDS AND AWARDS TO STUDENTS

Scholarships

THE ADVERTISING CLUB OF MEMPHIS annually awards a scholarship of \$250.00 to the outstanding junior or senior student majoring in advertising. Applications are to be submitted by April 1 to the chairman of the Department of Marketing.

THE MEMPHIS CHAPTER OF AMERICAN SAFETY ENGINEERS provides a fund of \$375 annually for men interested in the industrial technology major. This fund is divided into two equal amounts of \$187.50 each, and awards are made to seniors majoring in industrial technology.

THE DAVID H. BOWLIN MEMORIAL SCHOLARSHIPS of \$500 each are awarded to students who show outstanding academic promise, but who would not be able to avail themselves of a university education without financial assistance.

THE BURK JOURNALISM AWARD is offered annually to the freshman journalism major who has been judged most outstanding in academic performance and professional promise. The award, providing \$175 for tuition expenses during the winner's sophomore year, is donated by Bill E. Burk, a professional journalist and an alumnus of the Department of Journalism (Class of 1957) at Memphis State University.

THE COTERIE, an organization of women interested in the arts and philanthropies in the arts, provides scholarships to enable young women to continue their studies in the fine arts. Funds for the scholarships come from the Coterie's participation in the activities of the Memphis Shakespeare Festival, Inc.

THE MEMPHIS CHAPTER, FINANCIAL EXECUTIVES' INSTITUTE SCHOLARSHIP of \$250 is awarded annually to a second-semester junior student, majoring in industrial accounting with an interest in becoming a controller. The recipient must have scholastic ability with better than average grades. Applications will be submitted by the dean of The School of Business Administration and the chairman of the Department of Accountancy to the Memphis Chapter's Scholarship Committee.

THE DEPARTMENT OF GEOGRAPHY offers scholarships ranging from \$100 to \$300 annually to outstanding students desiring to work in geography. Scholarships are open to freshmen who finished in the upper 20% of their graduating class. Applications are to be submitted to the chairman of the Department of Geography.

THE JOSEPHINE CIRCLE SCHOLARSHIP is awarded annually to a beginning freshman. The award is made on the basis of scholastic record, personality, future plans of the applicant, and need.

THE IRA J. LICHTERMAN MEMORIAL SCHOLARSHIPS of \$500 each are awarded to students who show outstanding academic promise, but who would not be able to avail themselves of a university education without financial assistance.

THE P. H. MANNING SCHOLARSHIP FUND was established by the late Professor P. H. Manning, who left the bulk of his estate to be used by the State Board of Education to provide scholarships for young men students meeting certain conditions set forth in his will. The scholarships of \$100 each are given to young men from Carroll, Decatur, Gibson, and Henderson counties.

THE MEMPHIS STATE UNIVERSITY ALUMNI FOUNDATION BOARD grants annually to an incoming freshman who shows evidence of outstanding academic promise a scholarship in the amount of \$165.

THE MEMPHIS CHAPTER OF THE NATIONAL ASSOCIATION OF ACCOUNTANTS annually awards a scholarship of \$100 to an outstanding accounting major selected by the faculty of the Department of Accountancy. A scholarship key is presented to the recipient.

THE PERSONAL LOAN AND FINANCE SCHOLARSHIP of \$250 for two semesters is awarded annually to a freshman majoring in The School of Business Administration. Applicants must have a good academic average and some financial need.

THE SERTOMA CLUB—ROBERT TALLEY JOURNALISM SCHOLARSHIP was established to honor a long-time member of the editorial staff of the Memphis *Commercial Appeal*. Each year the Sertoma Club of Memphis awards a scholarship valued up to \$350 to an advanced journalism student who has done outstanding work at Memphis State University. Applications are to be submitted to the director of The School of Arts and Sciences.

THE SARAH ANN SMITH AWARD, established in honor of Sarah Ann Smith by the Alpha Xi Delta Sorority, provides an annual scholarship of \$50 to the most outstanding junior woman majoring in mathematics.

THE SOUTHERN BOILER AND TANKS WORKS SCHOLARSHIP consists of two awards of \$250 per year for two years for pre-engineering freshmen and sophomore students.

THE TENNESSEE SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS awards annually ten scholarships of \$250 each to accounting majors with good academic averages enrolled in qualifying Tennessee colleges. The scholarships are awarded on a competitive basis to the top ten applicants in relation to scholarship, extra-curricular activity, character, and financial need. Applications are to be submitted to the chairman of the Department of Accountancy.

S. C. TOOF & Co. annually awards a scholarship of \$250 to an outstanding junior or senior student majoring in advertising. Applications are to be submitted by April 1 to the chairman of the Department of Marketing.

UNIVERSITY SCHOLARSHIPS. Memphis State University awards annually approximately 250 scholarships to students who have exceptionally good academic records and are residents of the State of Tennessee. These scholarships pay the \$165 annual registration fees required of residents of Tennessee.

THE HORACE H. WILLIS MEMORIAL SCHOLARSHIP of \$250 annually is awarded from time to time to an incoming freshman on the basis of need for financial assistance and evidence of academic promise.

Loan Funds

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN LOAN FUND of \$200, administered by the Memphis branch of the AAUW, is available to women students recommended by the University.

THE AULL LOAN FUND of \$250, contributed by Mrs. Genevieve Aull, is to be used for loans to members of the senior class who have demonstrated their scholastic eligibility by one or more years of satisfactory work in residence.

THE ERNEST C. BALL LOAN FUND of \$280.36 is available for loans to eligible students.

THE JOHN WILLARD BRISTER LOAN FUND. On the occasion of the twenty-first birthday celebration of the University, the members of the faculty presented a fund of \$150 to be named in honor of the late President John Willard Brister.

THE CLASS OF 1933 LOAN FUND of \$102 was donated by the Class of 1933 as a class memorial.

DAUGHTERS OF THE AMERICAN REVOLUTION, FORT ASSUMPTION CHAPTER OF MEMPHIS, LOAN FUND of \$500 is available for loans to eligible students.

THE FEDERAL STUDENT LOAN FUND. The National Defense Education Act of 1958 makes available to the University money for loans to superior students; students may borrow as much as \$1,000 each year. The loan bears no interest until one year after the student graduates (and then only three per cent) and may be repaid over a ten-year period. If the graduate teaches, ten per cent of the loan will be cancelled for each year taught for the first five years; thus, one-half of the total amount borrowed will be cancelled after five years of teaching.

THE DR. JENNINGS B. GEORGE LOAN FUND of \$1000 was established in honor of Dr. Jennings B. George.

THE OWEN ROGERS HUGHES MEMORIAL LOAN FUND of \$100 is available for loans to eligible students.

THE KAPPA LAMBDA SIGMA AND PHI LAMBDA DELTA LOAN FUND of \$206 was presented by the Kappa Lambda Sigma sorority and the Phi Lambda Delta fraternity in memory of those members of Phi Lambda Delta who lost their lives in World War II.

THE MARION CIRCLE LOAN FUND of \$100 is available for loans to eligible students.

THE DELTA OMICRON CHAPTER OF PHI DELTA KAPPA sponsors a loan fund of \$500, available in \$125 loans to full-time undergraduate seniors and full-time graduate students who are planning to be teachers.

THE QUOTA CLUB LOAN FUND, administered by the Quota Club of Memphis, makes funds available to women students of junior or senior rank. Applications are to be submitted to Mrs. Ellen Davies Rodgers, chairman of the Education Committee of the Memphis Quota Club.

THE SHELBY COUNTY PARENT-TEACHER ASSOCIATION LOAN FUND of \$602.38 is available in varying amounts to eligible students.

THE TENNESSEE EDUCATIONAL LOAN CORPORATION, created by action of the 83rd General Assembly of the State of Tennessee, guarantees repayment up to 95% of loans made by Tennessee banks, or other lending institutions, to students from Tennessee who need to borrow money for their college education. This program enables lending institutions to provide long-time, low-interest loans on good character and academic promise rather than on customary credit standing or collateral.

THE UNITED STATES DAUGHTERS OF 1812 LOAN FUND of \$650, donated by the Old Hickory Chapter, USD of 1812, Memphis, consists of three awards: (1) the Mary Robinson Day Memorial Scholarship of \$250; (2) the Martha Moore Allen Scholarship of \$250; and (3) the Willis Hitzing Scholarship of \$125. All three of these awards are loan funds and may be awarded to a man or woman on recommendation of the faculty.

THE UNIVERSITY LOAN FUND is a revolving fund from which the University makes loans in varying amounts to eligible students.

THE ZONTA CLUB OF MEMPHIS LOAN FUND of \$250 is available to eligible junior and senior women. Applications are to be made through the Dean of Women who will submit the names to a committee of the Zonta Club for approval and selection.

Awards

THE COLLEGIATE CHAPTER OF THE AMERICAN MARKETING ASSOCIATION each year makes an award of a plaque to the outstanding senior majoring in marketing.

THE MEMPHIS CHAPTER OF ARCHITECTURAL WOODWORKERS offers cooperative employment opportunities for senior students majoring in drafting and design and in construction technology.

THE CHEMICAL RUBBER PUBLISHING COMPANY annually awards the *Handbook of Chemistry and Physics* to two freshman students selected by the faculties in chemistry and physics as outstanding in these fields of study.

THE PHI CHAPTER OF CHI BETA PHI, national honorary scientific fraternity, annually awards a plaque to the student who has attained the highest average grades during his four years of study in each of the disciplines of biology, chemistry, mathematics, and physics.

THE CITY PANHELLENIC ASSOCIATION makes an annual award to the sorority woman in the graduating class with the highest average.

DELTA SIGMA PI, the international business fraternity, annually awards a scholarship key to the man in The School of Business Administration graduating with the highest scholastic average in business subjects.

THE GOOCH FOUNDATION makes an annual award to the freshman holder of a Gooch Scholarship who has the highest scholastic average for the year.

PHI GAMMA NU, the professional sorority in business, each year presents a scholarship key to the woman business graduate who has maintained the highest scholastic average in The School of Business Administration.

THE SIMON AND GWYNN MARKETING AWARD is given annually to a senior majoring in marketing for the best treatise on a selected subject on advertising or marketing. The award consists of \$100 and a trophy.

THE STUDENT GOVERNMENT ASSOCIATION of the University makes an award at each convocation to the man in the class who, having done all his work at Memphis State University, shows the highest scholastic attainment.

THE SMEAD AWARD is presented to the outstanding graduate in the field of business education who is planning a career of teaching.

THE MEMPHIS CHAPTER OF THE TENNESSEE SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS presents a plaque each year to the graduating student who has the highest overall scholastic average among all accountancy majors.

THE WALL STREET JOURNAL annually awards a plaque and a year's subscription to the *Journal* to the most outstanding graduate in the fields of management or finance.

THE WOMEN'S ASSOCIATION of the University makes an award at each convocation to the woman member of the senior class who, having done all her work at Memphis State University, shows the highest scholastic attainment.

STUDENT SERVICES AND ACTIVITIES

(All student services are coordinated through the office of the Dean of Students.)

Health Service

Services of a physician and registered nurses are provided for minor treatment and consultation in the University Health Center, located on the first floor of the Administration Building. The student is financially responsible for hospitalization or medical care beyond that offered by the Health Service. Arrangements for medical care of resident students should be made in consultation with the Health Center staff; parents of resident students will be notified when additional medical services are necessary. For recommendations concerning hospitalization provisions for dormitory students, see page 70.

Special sickness and accident insurance policies for students are available; they are particularly valuable to those students whose coverage under family policies has terminated. Policies are issued by a private agency, authorized and approved by the University; details are available at the time of registration.

Bookstore

The University Bookstore, located east of the Education Building, is self-service and is stocked with textbooks and supplies required or recommended for every course offered in the University.

Post Office

The University Post Office is located on the first floor of Jones Hall. Each dormitory student is expected to rent a mailbox to facilitate the handling of his mail, which should be addressed to him at Memphis State University Station, Memphis, Tennessee, 38111.

Counseling Service

The Guidance, Counseling, and Testing Center provides both vocational and personal counseling for students of the University. In the former case the Center will provide psychological testing, evaluation, and guidance for those students who find themselves in a state of indecision about their occupational choice. In the latter instance, it may be profitable for students with personal or emotional problems to discuss these with a trained counselor.

In general, the student will make contact with the Center by way of referral through the Student Health Center or the Student Deans. However, the student may avail himself of these services by going directly to the Center, Room 266, Administration Building.

Placement Services

The Office of Alumni Placement, located in Room 3-C (third floor) of the Administration Building, arranges interviews between graduating students and prospective employers and maintains an active file of employment opportunities for alumni who wish to change positions or advance in their fields.

Teacher placement, because of its specialized nature, is handled in a separate Office of Teacher Placement, located in Room 104, Education Building.

Part-time employment for undergraduate students is handled through a branch office of the Tennessee Department of Employment Security, located on the first floor of the Administration Building, Room 1A. In cooperation with employers throughout the metropolitan area of Memphis, this office attempts to place students in part-time work that is in keeping with their ultimate employment goals. Part-time employment for freshmen is discouraged.

Athletics

The University sponsors a two-phase athletic program, intramural and intercollegiate. The intramural program is under the supervision of the Department of Health and Physical Education. Policies for intercollegiate athletics are set by the University Committee on Athletics.

The intramural program operates throughout the year and provides students with opportunities to compete in seasonal sports either as individuals or as members of teams from the various student organizations. Individual recreation is offered in tennis, shuffleboard, badminton, table tennis, archery, and handball. Team participation is offered in softball, touchball, basketball, volleyball, and track. Recreational equipment may be borrowed from the athletic supply room.

The intercollegiate program sponsors teams in football, basketball, baseball, track, golf, and tennis. These teams compete in a regular schedule with teams from other recognized institutions of the same scholastic level as Memphis State.

Athletic facilities on the campus include three gymnasiums, ten all-weather tennis courts, six handball courts, a football field, a quarter-mile running track, baseball and softball fields.

The Department of Health and Physical Education is closely associated with both the intramural and intercollegiate programs. All coaches serve as instructors in this department, and students utilize the two programs and facilities in preparation for careers in the fields of health and physical education.

Alumni Association

The Memphis State University Alumni Association, with offices in Room 3-C (third floor) of the Administration Building, maintains active contact with graduates for the mutual benefit of alumni and the University. Annual meetings of the association are held on the campus each autumn as an important feature of the Homecoming Weekend.

Veterans' Program

Veterans entering the University for the first time and desiring to take advantage of veterans' benefits must apply to the Veterans' Administration, 441 West Peachtree St., N.E., Atlanta, Georgia, 30308, for a Certificate for Education and Training. Korean veterans are responsible for payment of their University fees.

All veterans, after registration, must file schedules of their classes with the Coordinator of Veterans' Affairs, whose office is in the Student Center. Inquiries about the veterans' program should be addressed to that office.

Extra-Curricular Activities

A variety of extra-curricular activities under competent supervision and direction are included in the University's program, and furnish valuable experience and training for the students. Participation in extra-curricular activities is a privilege extended only to students who are in good standing and who meet the particular requirements of the various organizations. Invitations to membership, when required, are extended by the individual organizations.

No attempt is made in the following section to present an exhaustive or detailed account of all organizations and their activities. Full information is provided in the Student Handbook, distributed to all students at the time of registration. Copies are available in the offices of the Dean of Students, the Dean of Men, and the Dean of Women.

STUDENT GOVERNMENT. The Student Government Association is composed of officers, a legislature, and a judiciary elected annually by the student body. It exercises responsibility in those areas of student life delegated to it by the University and represents student opinion in working with the administration toward the good of the University.

PUBLICATIONS. Students write and edit *The Tiger Rag*, the weekly newspaper; *The DeSoto*, the University yearbook; and *The Phoenix*, the literary magazine.

ART. The Department of Art sponsors exhibitions of art works throughout the year. The galleries in Jones Hall and in the library display the work of national and local talent in addition to faculty shows and the annual student exhibit. Lectures and films on art are also a part of the department's yearly program.

MUSIC. Qualified students, whatever their majors, may participate in the numerous musical groups organized and directed by the Department of Music, including the University Symphony Orchestra, the Music Education Orchestra, the University Bands (marching, concert, and stage), and a variety of choral groups. In addition to offering concerts and recitals throughout the year, the Department of Music presents annually a major oratorio and a grand opera, the latter in cooperation with the Department of Speech and Drama. Copies of programs for the musical events of the 1963-64 season will be mailed upon request; letters should be addressed to the chairman of the Department of Music.

SPEECH AND DRAMA. Qualified students, whatever their majors, are invited to audition for roles in the plays produced each year by the Department of Speech and Drama and in the Shakespearean play produced annually by the Memphis Shakespeare Festival, Inc., to which the University plays

host. In addition to its major productions, the Department of Speech and Drama sponsors the Lunch Box Theatre, a student-organized and operated experimental theatre; the Readers Theatre, designed to present concert readings and programs of oral interpretation; and the Forensics Association, affording students opportunities to participate in debate, extemporaneous speaking, oratory, after-dinner speaking, and discussions. From this latter group are chosen those students who represent the University in its extensive intercollegiate forensics program.

THE GOODWYN INSTITUTE LECTURES. The Goodwyn Institute, founded and endowed by William A. Goodwyn, philanthropist and former citizen of Memphis, provides a series of free lectures and addresses covering a wide variety of subjects. The aim of the Institute is to offer to the citizens of Memphis and the students of the University authoritative and accurate information upon all kinds of practical and cultural subjects. Public forums frequently follow the lectures, all of which are held in the University auditorium. Admission is free, and reserved seat tickets may be obtained in the office of the Director of the Goodwyn Institute or in the office of the Dean of Men.

RELIGIOUS ACTIVITIES. Religious life on the campus is under the direction of a standing committee of the faculty and a student religious council functioning in cooperation with the Student Government Association. The major religious bodies maintain meeting facilities adjacent to the campus, each supervised by its own staff; they provide activities adapted to the needs of the University community and designed to aid in the continuing religious growth and development of faculty and students. The organized religious groups include the Baptist Student Union, Canterbury Club, Chi Alpha, Disciples Student Fellowship, Hillel Foundation, Koinonia Club, MSCF, Newman Club, Wesley Foundation, Westminster Fellowship, and Wittenberg Society. Each year the Religious Activities Committee of the faculty and the Student Religious Council sponsor a Religious Emphasis Week, during which outstanding leaders of all denominations are brought to the campus for student assemblies, lectures and seminar.

SCHOLARSHIP, LEADERSHIP, AND PROFESSIONAL ORGANIZATIONS. Many national honorary societies, devoted to encouraging high standards of scholarship, leadership, and professional competence, maintain active chapters on the campus. In addition, most departments and subject-matter areas sponsor local clubs to provide majors and other interested students with experiences and activities not always available in the class room. Organizations petitioning for membership in a national society maintain all standards required for affiliates. Local organizations operate under charters issued by the Student Government Association; revocation of a charter entails loss of University recognition and sanction. Detailed information concerning the following organizations, including requirements for membership, purposes, and specific activities, will be found in the Student Handbook and from sponsoring departments. Meetings are announced on bulletin boards and in *The Tiger Rag*.

Accounting Club
Alpha Lambda Delta (freshman women)
Alpha Psi Omega (drama)
American Chemical Society (student section)

American Institute of Physics (student section)
American Marketing Association
Angel Flight
Arnold Air Society
Band

Biology Club	Physical Education Clubs
Chi Beta Phi (science)	Pi Delta Epsilon (journalism)
Delta Mu Delta	Pi Sigma Epsilon (sales)
Delta Pi	Pre-Engineering Club
Delta Sigma Pi (commerce)	Pre-Legal Club
Delta Theta Phi (law)	Pre-Medical Club
Deutscher Verein (German)	Psi Chi (psychology)
Folk Dancers	Psychology Club
Home Economics Club	Sabre Air Command
La Rive Gauche (French)	Sigma Alpha Chi (military services)
Liberal Arts Honor Society	Sigma Alpha Iota (women in music)
Mathematics Club	Sigma Delta Pi (Spanish)
Modern Dance Club	Social Science Club
Omicron Delta Kappa (men)	Society for Advancement of Management
Orchesis (dance)	Sock and Buskin
Phi Alpha Theta (history)	Student National Education Association
Phi Delta Kappa (men in education)	Tassel (women)
Phi Gamma Nu (women in business administration)	Tau Kappa Alpha
Philosophy Club	Young Democrats
Phi Mu Alpha Sinfonia (men in music)	Young Republicans

SOCIAL FRATERNITIES AND SORORITIES. Nine national fraternities maintain chapters at the University: Acacia, Alpha Epsilon Pi, Kappa Alpha, Kappa Sigma, Lambda Chi Alpha, Pi Kappa Alpha, Sigma Alpha Epsilon, Sigma Chi, and Sigma Phi Epsilon. Most of them own houses off the campus and offer limited rooming facilities to upperclassmen. Student supervision and coordination of their activities are provided through the Interfraternity Council.

Ten national sororities maintain chapters at the University: Alpha Delta Pi, Alpha Gamma Delta, Alpha Phi, Alpha Xi Delta, Delta Zeta, Gamma Phi Beta, Phi Mu, Pi Beta Phi, Sigma Delta Tau, and Sigma Kappa. Most of them have suites in the Panhellenic building. Student supervision and coordination of their activities are provided through the Panhellenic Council.

University supervision of fraternity and sorority activities is provided through the offices of the Dean of Students and the Dean of Women.

Part Five

ACADEMIC REGULATIONS

THE ACADEMIC YEAR

THE academic year begins in September and covers a period of forty-eight weeks divided into two semesters and a summer session. Each semester is approximately eighteen weeks in length, and The Summer Session is divided into two terms of from five to six weeks each. Students may enter at the beginning of either of the regular semesters or at the beginning of either of the two terms of The Summer Session.

ORIENTATION, COUNSELING, AND REGISTRATION

An orientation program for all new undergraduate students is held on the days preceding registration as outlined in the University Calendar (page 5). During these orientation sessions, members of the administration and faculty introduce the new students to various programs of study, general University regulations, and basic registration procedures. Students are assigned to faculty advisers in the field of their major interest who aid them in selecting the appropriate courses. Throughout his residence at the University, each student has the assistance of his faculty adviser in all scholastic matters. *This assistance, however, does not relieve the student of the responsibility of studying the catalog himself and fulfilling all of the requirements therein for his particular goal.* It is expected that a student who has attained senior standing will consult with the dean of his school in regard to the fulfilling of the requirements for his chosen degree.

The Schedule of Classes, published a few weeks before the beginning of each semester and available from the office of the Dean of Admissions, contains a detailed outline of the registration procedure. Students are urged to study these schedules carefully and to keep them available for immediate reference during the registration period and throughout the semester. All students are expected to register on the dates indicated in the Calendar; although registration is permitted after these dates, a late registration fee is charged and there is no reduction in other fees. Students who delay more than thirty days in completing their registration will not be allowed to register the following semester. Only those students who enter during the first week of a semester are allowed to enroll for a full schedule of semester hours credit; late entrants are required to limit their loads. In no case is credit allowed in any course for which the student is not duly registered; and all courses for which the

student is registered are recorded as passed (with a letter grade), failed, incomplete, withdrew passing, withdrew failing, or dropped. No student will be granted credit for a course which is not properly entered on his official registration card. Registration is not complete until all fees for the semester have been paid.

CLASSIFICATION OF STUDENTS

Students having 25 semester hours of credit and two semesters of residence are classified as sophomores; students having 55 semester hours of credit and four semesters of residence are classified as juniors; students having 85 semester hours of credit and six semesters of residence are classified as seniors.

Special students. Only those students who hold baccalaureate degrees and who are registered in courses for undergraduate credit may be classified as special students. All others, whether full or part-time, are classified as freshmen, sophomores, juniors, seniors, or graduate students.

Students who have completed the required number of hours and the required residence to be classified as juniors but who have not completed their basic requirements in the Lower Division must schedule these uncompleted requirements during the first semester following in which such courses are available.

CREDIT HOURS AND MAXIMUM LOAD

The unit of credit at Memphis State University is the semester hour; a semester hour is defined as the credit earned for the successful completion of one hour per week in class for one semester; or two hours per week of laboratory work for one semester. (A course which gives three semester hours credit will normally meet for three lecture or recitation hours per week; or for two lecture or recitation hours and two laboratory hours per week; or for some other combination of these.) Each lecture hour presupposes a minimum of two hours preparation on the part of the student.

The minimum number of semester hours per semester for classification as a full-time student is twelve. The maximum number of semester hours for a student with less than a B average (3.0) is eighteen (not including the required physical education activity course). A student who has a B average for a semester may, with the permission of the dean of his school, schedule a maximum of twenty-one hours for the following semester.

For each term of The Summer Session, four semester hours is the minimum load for classification as a full-time student; six semester hours is the average load; seven semester hours is the maximum. No student may schedule more than a total of fourteen semester hours in the two terms of The Summer Session.

Only those students who enter during the first week of a semester are allowed to take a full schedule of semester hours credit; late entrants are required to limit their load.

Students who have part-time employment, either on or off the campus, are strongly urged not to register for a full academic load. Counting two hours preparation for each credit hour, they should not schedule more than an eight-hour working day for their combined academic and business duties.

GRADES AND QUALITY POINTS

Grades. At the end of each semester or summer term, instructors report to the Records Office the standing of all students in their classes. The grade of a student in any course is determined by his class standing and his examination, combined in such proportion as the instructor in charge of the course may decide. Class standing in any course is determined by the quality of the student's work, the regularity of his attendance, and the thoroughness of his preparation. The instructor's evaluation of the student's work is expressed by letters, which have values, on a scale of 100, as follows:

A, excellent (95-100)	I, incomplete
B, good (85-94)	DROP, if a course is dropped
C, satisfactory (75-84)	WTDN, withdrawn from the
D, poor (65-74)	University
F, failure (64 or below)	WP, withdrew passing
	WF, withdrew failing

The grade of I (incomplete) indicates that the student has not completed the course for some unavoidable reason that is acceptable to his instructor. This grade may be changed by the instructor and credit allowed when the requirements of the course have been met, provided the work has been completed within the first four weeks of the next semester the student is in residence; and provided further that the deficiency is made up within one calendar year from the date the grade of I was given, even if the student has not re-entered the University. If the student fails to complete the course within the specified time, no credit will be given for the course. The fee for a late examination is \$1.00.

All grades, with the exception of I, when once reported, can be changed only by the instructor who reported them, and then only after approval by the faculty Committee on Entrance and Credits.

A student has the privilege of repeating a course in an attempt to improve the grade previously made. The grade he makes the last time the course is taken is the grade that will be considered as the final grade.

All courses for which the student is registered are recorded as passed (with a letter grade), failed, dropped, withdrew passing, withdrew failing, or incomplete. In no case is credit allowed in any course for which the student is not duly registered. No student will be granted credit for a course which is not properly entered on his official registration card.

Quality Points. For the purpose of computing averages, grades are converted to quality points. Each grade of A counts 4 quality points per semester hour; B, 3 quality points; C, 2 quality points; D, 1 quality point; F, DROP, WTDN, WP, and WF, no quality points.

In computing a student's scholarship ratio, or quality point average, all courses attempted are included. As an example: a student carrying five three-semester-hour courses for a total of 15 semester hours makes the following grades: A, B, C, C, F; he has thus accumulated quality points in the amount of 12, 9, 6, 6, 0, for a total of 33. In computing his quality point average, the number of hours attempted (15) is divided into the quality points earned (33) for an average of 2.2.

CLASS ATTENDANCE

Students at Memphis State University are expected to give their scholastic obligations first consideration. Prompt and regular class attendance is considered necessary for satisfactory work. It is expected that a student will regard an engagement to attend classes as he would any other engagement or conference with an instructor. All reasons for absence should be submitted as soon as possible to the instructor. The satisfactory explanation of absences does not in any sense relieve the student from responsibility for the work of his course during his absence. The instructor in charge of a course determines in all instances the extent to which absences and tardiness affect the student's grade. Absences are counted from the first scheduled meeting of the course.

Absence from the final examination without the permission of the instructor incurs a mark of F.

CREDIT BY CORRESPONDENCE OR EXTENSION

Memphis State University accepts a limited number of credits earned by correspondence and/or extension, provided that such credits are taken from an institution which is a member of the University Extension Association, The Teachers College Extension Association, or the appropriate regional accrediting association. Memphis State University offers some work by extension but none by correspondence.

No student may enroll for correspondence or extension courses without written permission from the dean of the school of the University in which he is enrolled. No student is permitted to enroll for correspondence or extension courses while carrying a full load at Memphis State University.

Not more than one-fourth of the semester hours applied on the bachelor's degree may be earned by correspondence or extension or a combination of the two.

A student who has completed the two semesters of required residence in his junior and senior years and who lacks **NO MORE** than four semester hours toward completion of degree requirements may earn these additional credits by acceptable correspondence or extension work, or by residence at another approved institution. (For details of residence requirements, see page 93).

ADVANCED PLACEMENT CREDIT

Memphis State University participates in the Advanced Placement Program of the College Entrance Examination Board. A maximum of twelve semester hours may be given to qualified students on the basis of the examinations conducted by the Board. To be eligible for credit, an entering freshman must place in group three, four, or five of the CEEB Advanced Placement Tests.

CREDIT BY EXAMINATION

Examinations for credit in courses offered by the University may, under special circumstances, be offered to students who believe they have already mastered the material of the course through private study, technical employment, or the like. The following regulations govern the granting of credit by examination:

1. Permission to take an examination for credit will be given only in instances where the student has already gained fundamental knowledge of the subject. In no case will a student be permitted to take a credit examination in a course which he has audited or taken for no credit,

or in which he has previously made a grade of D or F. Nor may he take the examination for credit if he has already earned credit in a course of equivalent or more advanced standing.

2. Permission to take a credit examination will be granted only to students who are registered for no less than 12 semester hours in residence and who are in good academic standing. Permission to take a credit examination must be secured from the instructor of the course, the department chairman, and the dean of the school in which the student is registered. After permission has been granted, the Dean of Admissions will issue an official permit for the examination after the payment of the cost of the examination plus a fee of \$3.00 per semester hour. No instructor may give a credit examination until the official permit from the Dean of Admissions is presented.

3. Credit examinations normally will be given in conjunction with the final examination in the course for which credit is sought. The faculty and administrative personnel involved may choose to require a standardized examination instead of the final examination, or in addition to it. In no case will credit examinations be administered while the University is not in session.

4. The maximum credit which may be established through credit examination is 15 semester hours with not more than 8 semester hours in one area. Credit for course work earned on an examination basis will not be recorded until the student has successfully completed a more advanced course in the subject with at least a C grade.

5. Credit examinations are indicated on the pupil's record as P. To pass a credit examination the student must make a grade equivalent to least a C in the course. Grades on credit examinations will not be used in computing the quality point average.

COURSES FOR NO CREDIT

Students who are not candidates for a degree, and who do not desire to meet admission requirements and earn credit at Memphis State University, may take certain courses for no credit. Anyone interested should consult the dean of the school in which the course he wishes to take is offered.

ADDING AND DROPPING COURSES

After the official registration period is over the student may make adjustments in his schedule through the process of adding and/or dropping courses. Courses may be added only during the first five days of classes (three days in The Summer Session). Courses may be dropped only during the first five weeks of classes (eight days in The Summer Session). Exact dates of termination are carried in the University Calendar.

A course may be added or dropped only by permission of the student's adviser and the dean of the school in which the student is registered. Dropping a course without permission incurs the grade of F.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University must notify the Dean of Students promptly in writing. Failure to give such notification will result in grades of F on all courses for which the student is registered. Students enrolled in The Evening Division should report their withdrawals to the office of the director of The Evening Division.

Withdrawal from the University is not permitted within one week of the beginning of the final examination period of a semester or a summer term.

Any student who withdraws after the termination of the period during which courses may be dropped (see above, Adding and Dropping Courses) will have all courses not previously dropped recorded as either WP (Withdrew Passing) or WF (Withdrew Failing).

SCHOLASTIC STANDARDS

The Dean's List. The Dean's List is composed of those students who make at least three A's, not more than two B's, no C's or less; who are carrying not less than fifteen semester hours exclusive of required physical education; and who complete all courses for which they are registered.

The Honor Roll. For the selection of honor students, the faculty has adopted the following regulations:

1. Only those students who enroll for at least 12 semester hours credit, complete all courses for which they are registered, make some honor points, and are otherwise in good standing, are eligible for the honor roll. Students on probation and others who are scholastically deficient are not eligible.

2. From the list of eligible students, the highest ten percent are selected on the basis of honor points earned.

3. For a grade of B, 5 honor points for each semester hour are allowed; for a grade of A, 10 points.

Retention Standards. A minimum quality point average of 2.0 is required for graduation from the University. A student who has acquired 66 or more semester hours credit with less than a 2.0 average will be warned. Failure to bring the scholastic average up to 2.0 in a reasonable time will lead to exclusion from the University.

Probation. A student who makes less than a 1.5 quality point average or passes less than 50% of his attempted load for a semester will be placed on scholastic probation. If, during his next semester of attendance, the student's quality point average is again below 1.5, or if he passes less than 50% of the work attempted, he will be suspended for an indefinite period of not less than one full semester. If, at the end of his suspension he is readmitted to the University, he must remove probation during the first semester of his readmittance. A quality point average of 1.5 together with the passing of 50% of his attempted load will remove the student from probation.

Any student who fails probation the second time is excluded from the University. A student who withdraws while on scholastic probation is presumed to have failed his probation.

Part Six

GRADUATION FROM THE UNIVERSITY

DEGREES OFFERED

THE degrees conferred by Memphis State University are offered through The School of Arts and Sciences, The School of Business Administration, The School of Education, The School of Law, The Department of Industrial Arts, and The Graduate School, as follows:

The School of Arts and Sciences: *Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science in Medical Technology*

The School of Business Administration: *Bachelor of Business Administration*

The School of Education: *Bachelor of Science*

The School of Law: *Bachelor of Laws*

The Department of Industrial Arts: *Bachelor of Science*

The Graduate School: *Master of Arts, Master of Science, Master of Business Administration, and Master of Science Teaching*

Courses required for all baccalaureate degrees (except the Bachelor of Laws) are outlined in the section which follows; specific requirements for the individual degrees will be found in the sections of this catalog devoted to a description of the undergraduate schools. Requirements for the Bachelor of Laws degree will be found in the Bulletin of the School of Law; requirements for graduate degrees will be found in the Bulletin of The Graduate School.

GENERAL REQUIREMENTS FOR ALL BACCALAUREATE DEGREES

The following requirements have been established by the University for all undergraduate degrees offered. In addition, the student must meet the requirements for his specific degree as established by the school or department in which it is offered.

1. *English.* All students must complete successfully English 111, 112, 211, and 212, or their equivalent. They are to be taken consecutively through the freshman and sophomore years, or until completed. No credit will be allowed on any course until all the proceeding courses are completed. These courses may not be dropped from the student's schedule except under very special conditions.

2. *History.* All students must complete successfully History 221 and 222, or their equivalent. These courses are not open to students who have earned less than 25 semester hours credit.

3. *Science.* All students must complete successfully one year in a natural or physical science; this requirement must be met with a two-

semester sequence course in one science (biology, chemistry, mathematics, physical geography, or physics.)

4. *Physical Education.* Four semesters of physical education activity courses are required of all students during the first four semesters in the University, except those who complete two years of Air Force ROTC for whom only two semesters of physical education are required. All students are required to take Physical Education 100 for one or two semesters; they may then complete their requirements by selecting activity courses on the 200 level. No student other than a physical education major may apply more than four semester hours of basic physical education to the minimum degree requirements of 132 semester hours. A student unable for medical or other reasons to take regular physical education is required to register for an adaptive class, or otherwise follow recommendations of the office of health services.

5. *Writing Proficiency.* Every student entering Memphis State University on or after September 1, 1961, is required to pass a writing proficiency examination. He becomes eligible to take the examination as soon as he has successfully completed 70 semester hours of work. Students who transfer to Memphis State University on or after September 1, 1961, with 70 or more semester hours are eligible immediately to take the examination. Anyone who enrolled at Memphis State University as a regular student prior to September 1961, will not be required to take the examination unless his program is reorganized under the provisions of the catalog of 1961-62 or later. Dates of the examinations are listed in the University Calendar. For further details see Associate Professor William R. Osborne, Chairman of the Committee on Writing Proficiency, Room 373, Administration Building.

6. *Air Force ROTC.* All able-bodied full-time male students under 26 years of age, except those who have served an extended period of active military duty, are required to complete successfully the first two years of the Air Force ROTC program. If a student who is required to take part in this program fails to schedule the prescribed basic training any semester, he will not be allowed to re-enter the University any subsequent term without scheduling the proper basic training courses each semester thereafter until the two years have been successfully completed. Exceptions to these regulations can be granted only by the Professor of Air Science.

7. *Quality Point Average.* To receive a bachelor's degree from any of the schools in the University, a student must have at least 132 semester hours credit and at least 264 quality points (133 semester hours and 266 quality points for the Bachelor of Fine Arts); for the method of computing the quality point average, see page 85. If for any reason a student offers more than 132 semester hours credit for graduation, the ratio of two quality points to one semester hour of credit must be maintained. To attain this standard the candidate must have a C average on all courses attempted in the University. Students who enter Memphis State University with advanced standing are required to maintain an average of C on all courses taken here.

8. *Residence Requirements.* A student will satisfy the residence requirements for graduation by establishing residence as a full-time student (one registered for not less than 12 semester hours) for not less than two of the four semesters of his junior and senior years, provided that his last

semester shall be in residence. A student who has completed the two semesters of required residence in his junior and senior years as a full-time student and who lacks **NO MORE** than four semester hours toward completion of his degree requirements may earn these additional credits by residence at another approved institution, or by acceptable correspondence or extension work.

GRADUATION WITH DISTINCTION

The University gives special recognition to those of its graduates who have attained certain scholastic standards and fulfilled other requirements adopted by the faculty.

DEFERRED GRADUATION

A student is ordinarily allowed to graduate under the requirements of the catalog of the year in which he enters the University. If a student begins work on a degree and fails to complete the requirements, he must, after seven years from the date he entered, reorganize his degree plan to conform to the current catalog.

THREE-YEAR PRE-PROFESSIONAL CURRICULA

A student who completes six semesters of undergraduate work before entering an advanced professional school may, upon evidence of satisfactory completion of the first year of work in the professional school, be granted a baccalaureate degree from Memphis State University, provided that all the following provisions are met:

1. The minimum requirements for entrance to professional school must be sixty semester hours of undergraduate work.
2. The professional school must be accredited by the recognized national association in its field or must be an integral part of a university accredited by the appropriate regional association.
3. The last two semesters of pre-professional work must be done at Memphis State University.
4. The candidate must complete 99 semester hours in a pre-professional curriculum.
5. The candidate must complete, in his pre-professional curriculum, at least 24 semester hours in courses numbered above 299, including at least 6 semester hours in his major field.
6. The candidate must meet all freshman and sophomore requirements of the degree curriculum.
7. The candidate must complete a minimum of 24 semester hours in his major area and 18 semester hours in his minor area.

The candidate in the pre-professional degree program should notify the dean of his school of his intentions no later than the beginning of his sophomore year and should, with the guidance of his adviser, plan his program at that time.

REQUIREMENTS FOR TEACHER CERTIFICATION

An undergraduate student at Memphis State University who wishes to receive a certificate to teach in the elementary or secondary schools of the State of Tennessee must (1) file an application for admission to the teacher training program with the dean of The School of Education; applications for admission to the teacher education program can not be considered until the student has completed a minimum of one and one-half years of college work to the satisfaction of the faculty of The School of Education; for further details, see page 136. (2) complete successfully all of the University requirements for a baccalaureate degree; and (3) complete successfully the courses outlined in Sections I, II, and III, below.

Graduate, special, and transfer students who wish certification should confer with the Director of Certification concerning their individual requirements, particularly the credit to be allowed on courses taken elsewhere or at an earlier time.

I. PROFESSIONAL EDUCATION (24 semester hours)

Education, 102, 201, 203, and the courses in *one* of the following groups:

For the elementary certificate: Education 385, 386, 387, and 425

For the secondary certificate: Education 381, 391, and 415. (9 semester hours).

II. GENERAL EDUCATION (48 semester hours)

(Courses taken to meet the requirements of this section may, if applicable, be used to meet the requirements outlined in Section III, below.)

English 111, 112, 211, 212

Health 101

History 221, 222

Mathematics: 6 semester hours (for the elementary certificate); 3 semester hours (for the secondary certificate)

Science: 9 semester hours (including one two-semester sequence course) in one or two of the following sciences: biology, chemistry, physics, physical geography (Geography 111, 112)

One course (3 semester hours) in one of the following social sciences: anthropology, economics, geography (other than Geography 111, 112, 411, 412), political science, sociology.

Two courses (3 semester hours each) in the humanities, one course to be chosen from each of *two* of the following departments: Art, Classical Languages, History, Modern Languages, Music, Philosophy, Psychology, Speech and Drama.

One of the following courses: Home Economics 171, 241, 471, 482; Industrial Arts 362; Economics 313; Psychology 111, 213; Sociology 211.

III. SPECIFIC SUBJECT MATTER ENDORSEMENT (Choose A, B, C, D, or E, or any combination of these.*)

(Courses taken to meet the requirements of Section II, above, may, if applicable, be used to meet any part of the requirements of this section.)

A. CORE CURRICULUM (82 semester hours)

Endorsement for core curriculum requires 82 semester hours distributed over the broad fields of language arts, social studies, science, library service, and others. For specific requirements the student should consult the chairman of the Department of Curriculum and Instruction.

B. ELEMENTARY CERTIFICATE (48 semester hours)

Art 111, 301

Biology: 6 semester hours

Geography 121, 122, 351

Health 231 (or 241), 301 (or 302)

History 351

Library Service 321

Music Education 123, 124

Physical Education 350, 391

Speech 491

C. SPECIAL EDUCATION

To receive a certificate in special education, the student must have completed 45 semester hours of general education and the following requirements:

1. Crippling and Special Health Conditions (15 semester hours)
 Special Education 428, 480, 483, 484, 485
 Completion of the requirements for the elementary or secondary certificate, including Education 415 or 425
2. Educable Mentally-Retarded (18 semester hours)
 Special Education 427, 480, 481, 482
 Education S553 or 527
 One of the following courses: Art 361; Education 102, 476;
 Speech 262, 263
 Completion of the requirements for the elementary or secondary certificate
3. Speech and Hearing (Speech Pathology and Audiology) (51 semester hours)
 Special Education 480
 Education 102, 201, 203
 Three of the following courses: Education 325, 452, 472, 476, S553
 Speech 261, 262, 263, 361, 362, 363, 364, 461, and 462
4. Multiple Disabilities (including cerebral palsy) (27 semester hours)
 Special Education 427 (Or 428), 480, 481, 482, 483, 484
 Education 446 and S553 (or 527)

*The student whose major is in The School of Education must complete requirements for certification in two or more teaching areas with a combined minimum of 36 semester hours. (This requirement may be met by the completion of two endorsement areas for the secondary certificate provided they total at least 36 semester hours.)

Completion of the requirements for the elementary or secondary certificate, including Education 415 or 425, and not less than six semester hours in psychological foundations (satisfied by Education 102 and 201).

Speech 262

D. KINDERGARTEN THROUGH GRADE 3

To receive a certificate in kindergarten—grade 3, the student must complete the requirements for the elementary certificate and, in addition, must complete Education 382, 383, and 423.

E. SECONDARY CERTIFICATE (Choose one or more endorsements)

1. ART. (24 semester hours)

Art 111, 115, 116, 121, 122, 301, 313, 361

2. ARTS: FINE AND INDUSTRIAL (33 semester hours)

Art 111, 121, 122, 301, 313

Industrial Arts: 18 semester hours in industrial arts courses, with not less than 6 semester hours in each of three of the following areas: drafting, woodwork, metalwork, electricity, crafts, mechanics.

3. BUSINESS

All applicants for certification in business subjects are required to complete (a) a group of basic courses and (b) additional courses for endorsement in one or more specific fields; the same course may be applied in both areas.

a. Basic requirements (18 semester hours)

Accounting 201, 202

Economics 211, 212

One course from each of *two* of the following areas:

Management 101, 301; Secretarial Science 351, 352; Mathematics 301

b. Specific endorsement field (choose one or more)

(1) Bookkeeping (10 semester hours)

Accounting 201, 202, 272, and one additional upper-division course in accounting.

(2) Business Arithmetic (6-9 semester hours)

Mathematics 121, 122, and 301

or

Mathematics 122 and 301

(3) Business English (3 semester hours)

Secretarial Science 351 *or* 352

(4) Business Law (6 semester hours)

Management 301, 302

(5) Business machines (3 semester hours)

Management 271 *or* Secretarial Science 371

(6) Consumer education (3 semester hours)

Economics 313 *or* Home Economics 482

(7) Economics (12 semester hours)

Economics 211, 122, and two additional upper-division courses (6 semester hours) in economics

- (8) General business (9 semester hours)
Management 101 (or 312), 301; and a minimum of 3 semester hours in mathematics, the specific courses to be chosen in conference with the adviser
 - (9) Office and clerical practice (3 semester hours)
Secretarial Science 431, or 432, or 442
 - (10) Salesmanship (6 semester hours)
Marketing 301, 361
 - (11) Secretarial practice (15 semester hours)
Endorsement in office and clerical practice, shorthand, and typewriting
 - (12) Shorthand (6 semester hours)
Six semester hours in shorthand, including one upper-division course
 - (13) Typewriting (6 semester hours)
Six semester hours in typewriting, including one upper-division course
4. ENGLISH (12 semester hours)
English 442
One of the following courses: English 311, 312, 313, 451, 452
Two additional upper-division English courses (6 semester hours)
5. FOREIGN LANGUAGE (18-24 semester hours)
Endorsement may be obtained in French, German, Latin, and/or Spanish; the specific courses to meet certification requirements must be selected in conference with the chairman of the department in which the language is offered. Semester hour requirements are as follows:
If two or more units of one foreign language were taken in high school: 18 semester hours in that language
If fewer than two units were taken in high school: 24 semester hours in one language
(If a student has had two or more units in each of two foreign languages in high school, he may be certified in both languages if he completes a total of 30 semester hours in these same languages, with a minimum of 12 semester hours in each.)
6. HEALTH INSTRUCTION (15 semester hours)
Health 231, 241, 301, 302
One of the following courses: Health 476; Home Economics 471; Sociology 312; Special Education 485. (Health 416 may be elected with permission of the chairman of the Department of Health and Physical Education.)
7. HEALTH AND PHYSICAL EDUCATION (25 semester hours)
Health 231, 241, 301, 302
Physical Education 327 (or 328), 342, 351, 391, 482
8. HOME ECONOMICS (*Non-vocational*) (30 semester hours)
Home Economics 111, 211, 312, 241, 242, 341, 291, 471, 481, 482
9. INDUSTRIAL ARTS (18 semester hours)
Eighteen semester hours in industrial arts courses, including at least

9 semester hours in one of the following areas of specialization: drafting, woodwork, metalwork, electricity, crafts.

10. **LIBRARY SERVICE** (12-18 semester hours)

Endorsement may be obtained as either (a) librarian or (b) teacher-librarian.

a. Librarian: Library Service 321, 322, 323, 411, 412, 421

b. Teacher-librarian: Library Service 323, 411, 421, and one of the following courses: Library Service 321 (for elementary certification) or Library Service 322 (for secondary certification)

11. **MATHEMATICS** (18 semester hours)

Mathematics 141, 211, and 8 additional semester hours in mathematics courses.

12. **MATHEMATICS AND PHYSICAL SCIENCE** (51-53 semester hours)

Mathematics 141, 211, and 5 additional semester hours in mathematics courses.

Chemistry 111, 112

Physics 211, 212 (or Physics 251, 252)

Physical geography or geology: 8 semester hours

Mathematics and/or physical sciences electives: 12 semester hours

13. **MUSIC** (39-45 semester hours)

All applicants for certification in music are required to complete (a) a group of basic courses and (b) additional courses for endorsement in a specific field:

(a) Basic requirements (30 semester hours)

Music 111A, 111B, 112A, 112B, 211A, 211B, 316

One of the following courses: Music 110, 319, 401, 402

Applied music: 12 semester hours (in class instruction or individual lessons) approved by the chairman of the Department of Music Education

(b) Specific field of endorsement (Choose either or both)

(1) School music (9 semester hours)

Music 317

Music Education 132, 134, 136, and 321

(2) Instrumental music (15 semester hours)

Music, 315, 317

Music Education 331

Applied music (on one instrument): 6 semester hours

14. **SCIENCE**

Endorsement may be obtained in (a) biology, (b) chemistry, (c) physics, (d) general science, and/or (e) a combination of sciences.

a. Biology (16 semester hours)

Biology 141, 142, and 7 additional semester hours in biology courses.

b. Chemistry (16 semester hours)

Chemistry 111, 112, and 8 additional semester hours in chemistry courses

c. Physics (16 semester hours)

Physics 211, 212 (or Physics 251, 252) and 8 additional semester hours in physics courses.

d. General Science (16 semester hours)

Biology: 6-11 semester hours in biology, including one two-semester sequence course chosen from the following: Biology 111, 112, 141, 142

Chemistry or physics: 6 semester hours

Science elective (if needed to make up a total of 16 semester hours)

e. Broad field of science (32 semester hours)

If a student earns a total of 32 semester hours or more in three of the following sciences, he may receive endorsement for each one in which he has earned a minimum of 8 semester hours: biology, chemistry, geology, physics

15. SOCIAL STUDIES

Endorsement may be obtained in (a) economics, (b) geography, (c) government, (d) history, (e) sociology, and/or (f) the broad field of social studies.

a. Economics (12 semester hours)

Economics 211, 212, and 6 additional semester hours in economics courses

b. Geography (12 semester hours)

Geography 121, 122, 351, and 3 additional semester hours in geography courses

c. Government (12 semester hours)

Political Science 221, 222, and 6 additional semester hours in political science courses

d. History (12 semester hours)

History 111, 112, and 6 additional semester hours in a two-semester upper-division sequence course in history.

e. Sociology (12 semester hours)

Sociology 211 and 9 additional semester hours in sociology courses.

f. Broad field of social studies (30 semester hours)

History 111, 112; Economics 211, 212; Geography 111, 112; Political Science 221, 222; Sociology 211, 212

16. SPEECH (15 semester hours)

Speech 111, 245, 491, 492, and 3 additional semester hours in speech courses

Part Seven

THE SCHOOLS AND DIVISIONS OF THE UNIVERSITY

THE SCHOOL OF ARTS AND SCIENCES

WALTER RHEA SMITH, B.A., M.A., Ph.D., *Dean*
Room 203, Administration Building

THE School of Arts and Sciences has three distinct functions within the framework of the University.

1) Its primary function is to offer a strong liberal arts program designed to help the student prepare himself for life in his own cultural setting by acquiring the means and the desire continually to enlarge his intellect and deepen his insights. "The purpose of education," wrote John Stuart Mill, "is to make capable and cultivated human beings. Men are men before they are lawyers, physicians, or manufacturers; and if you make them capable and sensible men, they will make themselves capable and sensible lawyers and physicians." It is the earnest belief of The School of Arts and Sciences that the essential preparation for any profession or vocation is a thorough foundation in those major fields of human interest which are included in the humanities, the natural sciences, and the social sciences. The program of liberal studies at Memphis State University aims to provide the student with a store of factual knowledge; to introduce him to varying sets of principles; to stimulate him to think about and to evaluate these facts and principles; and to encourage him to order his own affairs and those of his society with the talent, insight, and discrimination which he develops.

2) The School of Arts and Sciences offers this kind of education, not only to the candidates for its own degrees, but also to the students of other schools of the University, all of whose degree plans call for courses in the liberal arts.

3) A third important function of the school is to offer preparatory courses for students interested in careers in medicine, dentistry, nursing, teaching, engineering, law, and other professions; specific pre-professional programs, designed to prepare students to qualify for admission to professional schools, are available.

DEGREES OFFERED

The School of Arts and Sciences offers five degrees: two are academic, the Bachelor of Arts and the Bachelor of Science; three are professional, the Bachelor of Fine Arts, the Bachelor of Music,

and the Bachelor of Science in Medical Technology. Requirements for these degrees are outlined in the section beginning on page 107.

ORGANIZATION OF THE SCHOOL

Departments. The School of Arts and Sciences comprises sixteen departments: Art, Biology, Chemistry and Physics, Classical Languages, English, Geography, History, Journalism, Mathematics, Modern Languages (French, German, Hebrew, Italian, Russian, Spanish), Music, Philosophy, Political Science, Psychology, Sociology and Anthropology, and Speech and Drama. Requirements for the majors and minors offered by these departments are listed in the section beginning on page 113.

Concentration groups. The various offerings of the sixteen departments of The School of Arts and Sciences are organized into three concentration groups:

HUMANITIES: art, English, French, German, Greek, history, Italian, journalism, Latin, mathematics, music, philosophy, psychology, Russian, Spanish, speech.

NATURAL SCIENCES: biology, chemistry, physical geography, mathematics, physics

SOCIAL SCIENCES: anthropology, economics (administered by The School of Business Administration), geography (other than physical), history, philosophy, psychology, political science, sociology

Lower and Upper Divisions. The Lower Division comprises the freshman and sophomore years, the first four semesters of undergraduate work; courses in the lower division are numbered from 100 through 299. In order to be admitted to the Upper Division, the student must have completed the work of the Lower Division with an average grade of C (a quality point average of 2.0). In addition, he must have submitted to his adviser for approval a complete program of study for work in the Upper Division. A student who completes the work of the Lower Division with less than a C average will be given one additional semester in which to reach this standard; if, at the end of this additional semester, his average is below C, he will be advised to withdraw from the University.

The Upper Division comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the Upper Division are numbered from 300 through 499. Students who have completed the required number of hours and the required residence to be classified as juniors, but who have not completed their basic requirements in the Lower Division, must schedule these uncompleted requirements during the first semester in which such courses are available.

ADMISSION

All applicants for admission to The School of Arts and Sciences must meet the general University requirements listed in the section beginning on page 60. In addition, students who plan to become candidates for degrees in The School of Arts and Sciences must meet the following requirements:

Bachelor of Arts. In order to be admitted to the Lower Division of The Schools of Arts and Sciences as a candidate for the Bachelor or Arts degree the student must have graduated from an approved high school with at least 15 units, divided as follows: English, at least 3 units; mathematics, at least 2 units; foreign language, at least 2 units in one language; the remainder to be chosen from other high school units, with not more than 3 from vocational subjects. It is strongly urged that the elective units be concentrated in the humanities, the natural sciences, and the social sciences. (If the student offers only one unit in mathematics, he may be admitted to the Lower Division, but will be required to complete successfully Mathematics 101.)

Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, and Bachelor of Science in Medical Technology. In order to be admitted to the lower division of The School of Arts and Sciences as a candidate for one of the preceding degrees, the student must have graduated from an approved high school with at least 15 units, divided as follows: English, at least 3 units; mathematics, at least 2 units; the remainder to be chosen from other high school units, with not more than 4 from vocational subjects. It is strongly urged that the elective units be concentrated in the humanities, the natural sciences, and the social sciences. (If the student offers only one unit in mathematics, he may be admitted to the Lower Division, but will be required to complete successfully Mathematics 101.)

RESIDENCE REQUIREMENTS

University residence requirements are explained in detail on page 93. A transfer student in The School of Arts and Sciences must be in residence at Memphis State University as a full-time student during his final semester before graduation and for at least one additional semester during his junior and senior years; he must earn at least 6 semester hours in residence in his major subject and at least 3 semester hours in his minor.

FOREIGN LANGUAGE REGULATIONS

1. A student who has completed one or more units in high school in one foreign language may not receive credit at Memphis State University for the corresponding semester or semesters in that language (one high school unit is the equivalent of one semester.) For example, if a student has completed one unit of French in high school, he may not receive credit for French 111; if he has completed four units of French in high school, he may not receive credit for French 111, 112, 211, or 212.

2. A student may not receive credit for anything less than *two* semesters (six semester hours) in beginning courses (111, 112) in one foreign language. For example, he will receive no credit, elective or otherwise, for French 111 unless he completes French 112 or a higher numbered course in French; if he begins his study with French 112, he will receive no credit for the 112 unless he completes French 211 or a higher numbered course in French. Credit will be allowed for a single semester's work in courses numbered above 199, and for single courses in Hebrew.

3. Foreign-born students may receive credit for courses in their mother tongue and its literature only (1) for courses taken in native institutions of college level, or (2) for upper-division courses taken at Memphis State University or in another English-speaking institution of approved standing.

4. Specific requirements in foreign languages for the degrees offered by The School of Arts and Sciences are as follows:

A. *BACHELOR OF ARTS*: three years (eighteen semester hours), or the equivalent, in one foreign language. (Greek 111 and 112 may be substituted for six semester hours of upper-division Latin; six semester hours of Latin may be substituted for six semester hours of upper-division Greek). If the student elects to continue the study of the same foreign language which he studied in high school, the following regulations apply:

- 1) If he had one unit of one foreign language in high school, he must complete 15 semester hours in courses numbered above 111 in that language.
- 2) If he had two units of one foreign language in high school, he will fulfill the requirements with 12 semester hours in that language in courses numbered above 199.
- 3) If he had three units of one foreign language in high school, he will fulfill the requirements with 9 semester hours in that language in courses numbered above 211.
- 4) If he had four units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 299.

B. *BACHELOR OF SCIENCE, BACHELOR OF FINE ARTS, BACHELOR OF MUSIC, BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY*: one year (six semester hours) in one foreign language. If the student elects to continue the study of the same foreign language he studied in high school, the following regulations apply:

- 1) If he had one unit of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 111.
- 2) If he had two units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 199.
- 3) If he had three units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 211.
- 4) If he had four units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 299.

PRE-PROFESSIONAL TRAINING

Standing committees of the faculty are available to advise students interested in preparing for careers in various professional areas; committee members, representing departments of the University in which pre-professional training is given, advise students concerning specific programs required by the various professional schools and furnish them with curriculum schedules showing the semester in which each of the required courses should be taken. A student who completes successfully six semesters of undergraduate work before entering an accredited professional school may, upon presentation of evidence of satisfactory completion of the first year of professional education, be granted a baccalaureate degree from Memphis State University provided that the requirements set forth in the three-year pre-professional curriculum described on page 94 are met. The advisory committees are as follows:

Pre-Medical (Professor Elmore Holmes, chairman). This committee advises students interested in careers in medicine, dentistry, nursing, pharmacy, optometry, veterinary medicine, medical technology, and related fields in the health sciences.

Pre-Law (Dean Robert D. Cox and Professor Erwin Clyde Buell, co-chairmen). In general, accredited law schools have not adopted specific requirements for pre-law education; they do, however, emphasize certain courses as being conducive to the development of the broad cultural background necessary for the successful study of law. Students enrolling in The School of Arts and Sciences for their pre-law training are encouraged to enter immediately one of the degree programs offered by the school.

Pre-Engineering (Professor Don Pearson Claypool, chairman). Students who plan to enter the engineering profession can complete one, two, or three years of pre-professional training at Memphis State University; this training is composed of the basic subjects required in most of the engineering options offered by the professional schools.

Pre-Social Work (Assistant Professor Charles Henderson, chairman). The student who wishes to prepare for admission to a graduate school of social work or who plans to go directly from college into a social work program will complete the requirements for the baccalaureate degree with a major in either sociology or psychology; specialized courses will be chosen in conference with the adviser.

TEACHER PREPARATION

Students enrolled in a degree program of The Schools of Arts and Sciences who wish to prepare themselves for teaching careers in the elementary or secondary schools of Tennessee may meet the state certification requirements while pursuing their chosen majors. Detailed certification requirements are outlined in the section beginning on page 95. Application to enter the program of teacher preparation must be made in the office of the dean of The School of Education.

REQUIREMENTS FOR THE DEGREES

BACHELOR OF ARTS

To qualify for the degree of Bachelor of Arts the student must complete 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the Upper Division (those numbered above 299) and at least 90 semester hours must be in courses offered within The School of Arts and Sciences. Not more than 18 semester hours (excluding required physical education courses) may be taken in any one department outside The School of Arts and Sciences except in the field of a second minor. Not more than 42 hours will be accepted in any one subject (except chemistry*). Detailed requirements are as follows:

*Chemistry majors may be allowed to take more than 42 semester hours in chemistry courses in order to meet the minimum standards set up by the American Chemical Society.

English 111, 112, 211, 212

Foreign language; for details see page 105.

History 221, 222

Biology 141, 142

One two-semester sequence course (six semester hours or more) in chemistry, mathematics (above 121), physics, or Geography 111 and 112.

A social science: 6 semester hours

Air Force ROTC (for men only); for details see page 93.

Physical education (2 or 4 semester hours); for details see page 93.

Completion of the requirements for a major selected from one of the concentration groups listed on page 103. A minimum grade of C is required of every course for the major except in beginning courses and in sophomore English. Specific course requirements for all majors and minors offered in The School of Arts and Sciences are listed in the section beginning on page 113.

Completion of the requirements for a minor in a subject other than the major but in the same concentration group as the major

Electives to bring the total to 132 semester hours.

BACHELOR OF SCIENCE

To qualify for the degree of Bachelor of Science in The School of Arts and Sciences the student must complete 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the Upper Division (those numbered above 299) and at least 90 semester hours must be in courses offered within The School of Arts and Sciences. Not more than 18 semester hours (excluding required physical education courses) may be taken in any one department outside The School of Arts and Sciences except in the field of the minor. Not more than 42 semester hours will be accepted in any one subject (except chemistry*). Detailed requirements are as follows:

English 111, 112, 211, 212

Foreign language; for details see page 105.

History 221, 222

One two-semester sequence course (six semester hours or more) in biology, chemistry, mathematics (above 121), physics, or Geography 111 and 112.

Air Force ROTC (for men only); for details see page 93.

Physical education (2 or 4 semester hours); for details see page 93.

*Chemistry majors may be allowed to take more than 42 semester hours in chemistry courses in order to meet the minimum standards set up by the American Chemical Society.

Completion of the requirements for a major selected from one of the concentration groups listed on page 103. A minimum grade of C is required of every course for the major except in beginning courses and in sophomore English. Specific course requirements for all majors and minors offered in The School of Arts and Sciences are listed in the section beginning on page 113.

Completion of the requirements for a minor in any subject (other than the major) offered by any department of the University.

Electives to bring the total to 132 semester hours.

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in art than he has under the other baccalaureate programs; for this degree a total of 133 semester hours is required for graduation, 81 of which must be in art courses. A minimum grade of C is required in all upper-division art courses; the student must maintain an overall quality point average of 2.0 (on a scale in which a grade of A has a quality point value of 4; B, 3; C, 2; and D, 1.) The specific degree requirements are divided into five groups; (1) general education, (2) basic art courses, (3) courses in *one* of the four concentration areas; (4) elective courses in art; and (5) elective courses other than art (but within The School of Arts and Sciences) to bring the total to 133 semester hours.

(1) General education courses

English 111, 112, 211, 212

Foreign language; for details see page 105.

History 221, 222

One two-semester sequence course (six semester hours or more) in biology, chemistry, mathematics (above 121), physics, or Geography 111 and 112.

Air Force ROTC (for men only); for details see page 93.

Physical education (2 or 4 semester hours); for details see page 93.

(2) Basic art courses

Art 113 (Lettering)

Art 115 and 116 (Drawing)

Art 121, 122, 215, and 216 (Design)

Art 231 (Sculpture)

Art 337, 338, 411, and 412 (Art History)

Art 241 (Graphics)

Art 339 (Ceramics)

Art 461 (Seminar)

(3) Concentration area. Choose a, b, c, or d

a. Painting

Art 213, 431, and 432 (Drawing and Painting)

Art 331 and 332 (Casein)

Art 333, 334, 433, and 434 (Oil)

b. Graphic Techniques

Art 335, 336, 441, and 442 (Graphics)

- Art 213, 431, and 432 (Drawing and Painting)
- Art 333 and 334 (Oil)
- c. Commercial Art
 - Art 315, 316, 423, 424 (Advertising Design)
 - Art 207 (Lettering and Layout)
 - Art 323 and 324 (Package Design)
 - Art 421 and 422 (Illustration)
- d. Interior Design
 - Art 214 (Perspective)
 - Art 317, 318, 429, 430 (Interior Design)
 - Art 323 and 324 (Packaging and Display)
 - Art 425 and 426 (Interior Rendering)
- (4) Art electives: 9 semester hours
- (5) Elective courses other than art (but within The School of Arts and Sciences) to complete the total of 133 semester hours. These courses will be chosen by the student in consultation with his adviser and the chairman of the Department of Art

BACHELOR OF MUSIC

The Bachelor of Music is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in music than he has under the other baccalaureate programs; as many as 92 of the 132 semester hours required for graduation may be in music. A minimum grade of C is required in all upper-division music courses; the student must maintain an overall quality point average of 2.0 (on a scale in which a grade of A has a quality point value of 4; B, 3; C, 2; and D, 1. The specific degree requirements are divided into five groups: (1) general education, (2) basic music courses, (3) courses in *one* of six concentration areas, (4) music electives, and (5) elective courses other than music and music education to bring the total to 132 semester hours.

Detailed requirements are as follows; figures in parentheses indicate semester hours credit.

- (1) General education courses
 - English 111, 112, 211, and 212 (12)
 - Foreign language; for details see page 105.
 - History 111, 112, 221, and 222 (12)
 - One two-semester sequence course (six semester hours or more) in biology, chemistry, mathematics (above 121), physics, or Geography 111 and 112.
 - Air Force ROTC (for men only); for details see page 93.
 - Physical education (2 or 4); for details see page 93.
- (2) Basic music courses
 - Music 110, Introduction to Music (4)
 - Music 111, 112, 211, 212, Music Theory I and II (16)
 - Music 301, Counterpoint (3)
 - Music 308, Form and Analysis (3)
 - Music 316, Choral Conducting (3)

Music 401 and 402, History of Music (6)

Music ensembles (8)

Individual instruction in piano, organ, voice, or orchestral instrument (8)

Piano proficiency (See page 244 for details)

(3) Concentration areas. Choose a, b, c, d, e, or f

a. Instrumental music (piano, organ, string, or wind instrument)

Individual instruction in major instrument (8)

Recital

Music 315, Instrumentation (3)

Small Ensembles and Chamber Music (4)

b. Voice

Individual instruction in voice (8)

Recital

Individual instruction in piano (4)

Small Ensembles (opera workshop, madrigal group, etc.) (4)

Music 317, Conducting and Score Reading (3)

Foreign language, in addition to the six semester hours required in the general education group (12)

c. Music Theory and Composition

Music Education 126, 132, 133, 134, 135, 136, and 137 (class instruction in strings, winds, and percussion) (7)

Music 302 and 303, Canon and Fugue (4)

Music 305, 306, 405, 406, Composition I and II (8)

Music 315, Instrumentation (3)

Recital or thesis

d. Music History and Literature

Music 411, Comparative Arts (3)

Music 412, Modern Music (3)

Music 413, The Opera and Music Drama (3)

Music 414, Piano History, Literature, and Pedagogy (3)

Art 337, 338, 411, and 412, Art History I, II, III, IV (12)

English 370, Mythology (3)

Foreign language, in addition to the six semester hours required in the general education group (6).

Recital or thesis

e. Music Education

Music 315, Instrumentation (3)

Music 317, Conducting and Score Reading (3)

Materials and methods: courses to be selected with adviser's approval (6-9)

Applied music to meet certification requirements

Courses in the Department of Curriculum and Instruction to meet certification requirements (24)

Courses in general education to meet certification requirements (15)

Recital.

f. Church Music

Music Education 132, 134, 136, class instruction in string, woodwind, and brass instruments (3)

Music 315, Instrumentation (3)

Music 317, Conducting and Score Reading (3)

Music 418 and 419, Sacred Music I and II (6)

English 380, Biblical Literature (3)

Two courses from the Department of Philosophy (6)

Recital or direction and public presentation of a cantata

- (4) Music electives: at least six semester hours in upper-division music courses selected from a concentration area other than the one chosen for the major.
- (5) Elective courses other than music and music education to bring the total to 132 semester hours. These courses will be chosen by the student in consultation with his adviser and the chairman of the Department of Music.

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

For students interested in careers in medical technology, The School of Arts and Sciences offers a three-year preparatory curriculum, the successful completion of which will qualify them to enter any accredited school of medical technology for clinical training which would result in eligibility for registry. Locally the University maintains an affiliation with the schools of medical technology of the Baptist Memorial Hospital and the Methodist Hospital, both of which are fully accredited. Should a student decide to enter either of these schools after completing successfully the preparatory curriculum, he may, after one year of clinical training and two additional courses in biochemistry (the lecture sessions only) taken on this campus, apply for the degree of Bachelor of Science in Medical Technology from this University; he would also, of course, be eligible for registry. A student who wishes to pursue this degree plan must file a degree program with the dean of the School of Arts and Sciences no later than the first semester of his sophomore year; he should confer with the chairman of either the Department of Biology or the Department of Chemistry and Physics concerning the choice of a major and a minor.

Specific requirements for the preparatory curriculum in medical technology (and the additional requirements for those working toward a baccalaureate degree) are as follows:

English 111, 112, 211, 212

Foreign language; see page 105 for details

History 221, 222

Psychology 111

Psychology 112 or Sociology 211

Physics 211 and 212

Mathematics 122; or Mathematics 141

Biology 141, 142, 302 (or 341), 361 (or 403); the student working toward the baccalaureate degree will, in his third year, elect one additional upper-division biology course approved by the department chairman.

Chemistry 111, 112, 200, 201, 321, 322; the student working toward the baccalaureate degree will, in his fourth year, take Chemistry 401 and 402, lecture sessions only.

Air Force ROTC (for men only); see page 93 for details

Physical Education; see page 93 for details

Electives: 6 semester hours in the third year; the student working toward the baccalaureate degree will take an upper-division biology course to fulfill 3 semester hours of this requirement.

A curriculum schedule, showing the semester in which each of these courses should be taken, may be obtained from members of the Pre-Medical Advisory Committee.

IMPORTANT NOTE: The preparatory curriculum in medical technology does NOT qualify a student for the three-year pre-professional degree program described on page 94 of this catalog. Only those students who enroll in the schools of medical technology of the Baptist Memorial Hospital or the Methodist Hospital, both located in Memphis, can qualify for the degree of Bachelor of Science in Medical Technology from Memphis State University.

DEPARTMENTAL REQUIREMENTS FOR MAJORS AND MINORS

Listed below are the specific course requirements for all majors and minors offered in The School of Arts and Sciences. A minimum grade of C is required in every course applicable toward a major or a minor, except in beginning courses and in sophomore English.

ANTHROPOLOGY (*See SOCIOLOGY AND ANTHROPOLOGY*)

ART (*The requirements listed below are for the major and minor in art for the Bachelor of Arts or the Bachelor of Science degree; for detailed requirements for the Bachelor of Fine Arts, a professional degree, see page 109.*)

The Major: 36 semester hours in art courses, including Art 111, 115, 116, 121, 122, 301, 313, 361, and 12 additional semester hours, 3 of which must be from the upper division.

The Minor: 24 semester hours in art courses, 9 of which must be from the upper division.

BIOLOGY

The Major: 36 semester hours in biology courses, 18 of which must be from the upper division; the student will elect *one* of the following areas of concentration and meet the specific requirements outlined below:

- a. Botany
Biology 141, 142, 300, 302, 304
Biology electives (chosen in conference with the adviser) to bring the total semester hours in biology to 36, including one field course
Chemistry: one two-semester sequence course
- b. Zoology
Biology 141, 142, 300, 331, 332
Biology electives (chosen in conference with the adviser) to bring the total semester hours in biology to 30
Chemistry: one two-semester sequence course

The Minor: 18 semester hours in biology courses (including Biology 141 and 142), 7 of which must be from the upper division

CHEMISTRY AND PHYSICS: The Department of Chemistry and Physics offers majors and minors in chemistry, physics, and physical science. The specific requirements for each are outlined below:

CHEMISTRY

The Major: 43 semester hours in chemistry courses, plus related courses outlined below:

Chemistry 111, 112, 220, 321, 322, 341, 342, 420, 421, 422, 431, 490, 491

Mathematics 141, 211, 212, and 312

Physics 251, 252 (or 211, 212 if approved by the chairman of the Department of Physical Sciences)

German 111, 112, 222

The Minor: 20 semester hours in chemistry courses, including Chemistry 111, 112, 220 (or a 4 semester-hour course from the upper division), 321, 322

PHYSICS

The Major: 32 semester hours in physics courses, including Physics 251, 252 (Physics 211, 212 are acceptable but not recommended) and additional upper-division physics courses to bring the total to 32 semester hours

Chemistry 112

Mathematics 312 and 6 semester hours in mathematics courses numbered above 312

The Minor: 20 semester hours in physics courses, including Physics 251, 252 (Physics 211, 212 are acceptable but not recommended), and additional upper-division physics courses to bring the total to 20 semester hours.

PHYSICAL SCIENCE: A major in physical science is suggested for those students who plan to teach the sciences in high school but do not desire to major in either chemistry or physics.

The Major: 32 semester hours in chemistry and physics courses, including Chemistry 111, 112; Physics 251, 252 (or Physics 211, 212); and additional hours in chemistry and/or physics courses from the upper division to bring the total to 32 semester hours.

The Minor: 20 semester hours in chemistry and/or physics courses, of which at least 8 semester hours must be from the upper division.

CLASSICAL LANGUAGES

The Major in Latin: 12 semester hours in upper-division Latin courses

The Minor in Latin: 6 semester hours in upper-division Latin courses

ECONOMICS

The Major: 27 semester hours including Economics 211, 212, 361, 411, 413, 492; Management 371 (or Mathematics 321), and 6 additional semester hours in economics courses from the upper-division as approved by the adviser.

The Minor: 18 semester hours in economics courses, including Economics 211, 212, 361, 413, and 6 additional semester hours from the upper division as approved by the adviser.

ENGLISH

The Major: 18 semester hours in upper-division English courses, including at least one course from *each* of the following groups:

English 301, 302, 470

English 340, 341, 342, 350, 351, 352

English 420, 421, 422, 423, 424

English 432, 433

The Minor: 12 semester hours in upper-division English courses, at least 6 of which must come from the courses required for the major (one course from each of two groups).

FRENCH (See MODERN LANGUAGES)

GEOGRAPHY

The Major: 30 semester hours in geography courses, including Geography 111, 112, 121, 122, 235, 236, and 12 additional semester hours from the upper division. Sociology 211, 212

The Minor: 24 semester hours in geography courses, including Geography 111, 112, 121, 122, 235, 236, and 6 additional semester hours from the upper division.

GERMAN (See MODERN LANGUAGES)

HISTORY

The Major: 30 semester hours in history courses, including History 111, 112, 221, 222, and 18 additional semester hours from the upper division with a minimum of 6 semester hours in European history and 6 semester hours in American history.

The Minor: 24 semester hours in history courses, including History 111, 112, 221, 222, and 12 additional semester hours from the upper division.

JOURNALISM

The Major: The Department of Journalism offers a choice of three majors: news-editorial, advertising, and radio-television journalism; the requirements are as follows:

- a. News-editorial: 30 semester hours in journalism courses, including Journalism 111, 112, 211, 212, 312, 332, 450, and 9 additional semester hours from the upper division.
- b. Advertising: 30 semester hours in journalism and related courses, including
 - Journalism 111, 112, 200, 314, 315, 413, and 450
 - Marketing 301
 - Art 315
 - One of the following courses: Art 316, 323, 423; Marketing 351, 352, 356
- c. Radio-television journalism: 30 semester hours in journalism and related courses, including
 - Journalism 111, 112, 211, 212, 314, 360 365, and 370
 - Marketing 455
 - Speech 381

All journalism majors must work the equivalent of two semesters on *The Tiger Rag*, the weekly newspaper; on *The DeSoto*, University yearbook; or in the office of the University Public Information Office. Semester hours credit for this work, whenever it is done, will not be granted until the student's senior year.

The Minor: 18 semester hours in journalism courses, including Journalism 111, 112, 211, and 9 additional semester hours, 6 of which must be from the upper division.

LATIN (See CLASSICAL LANGUAGES)

MATHEMATICS

The Major: A minimum of 33 semester hours in mathematics courses, including Mathematics 211, 212, 312, and 18 additional semester hours from the upper division. Chemistry or physics: 8 semester hours.

The Minor: 18 semester hours in mathematics courses, at least 6 semester hours of which must be from the upper division.

MODERN LANGUAGES: The Department of Modern Languages offers majors and minors in French, German, and Spanish.

Requirements for the majors and minors are as follows:

FRENCH

The Major: 18 semester hours in upper-division French courses, including French 311 and 312.

The Minor: 12 semester hours in upper-division French courses.

GERMAN

The Major: 18 semester hours in upper-division German courses, including German 311 and 312.

The Minor: 12 semester hours in upper-division German courses.

SPANISH

The Major: 18 semester hours in upper-division Spanish courses, including Spanish 311, 312, 341, and 342.

The Minor: 12 semester hours in upper-division Spanish courses.

MUSIC. The requirements listed below are for the major and minor in music for the Bachelor of Arts or the Bachelor of Science degree; for detailed requirements of the Bachelor of Music, a professional degree, see page 110. For requirements for the major and minor in music education, see page 141. For details of piano proficiency requirements, see page 244.

The Major: 39 semester hours in basic music courses plus the completion of the requirements for *one* concentration area; specific courses are outlined below:

- a. Basic music courses (39 semester hours)
Music 110; 111, 112, 211, 212; 301, 308, 315 (*or* 316); 401, 402; and 4 semester hours of individual instruction in piano, organ, voice, or orchestral instrument.
- b. Concentration areas (choose one)
 1. Applied Music (4 semester hours)
4 semester hours of individual instruction in upper-division courses
Recital
 2. Music Theory and Composition (8 semester hours)
Music 302, 303, 305, and 306
 3. Music History and Literature (9 semester hours)
Three of the following courses: Music 411, 412, 413, 414
 4. Church Music (9 semester hours)
Music 317, 418, and 419

The Minor: 22 semester hours in basic music courses plus the completion of the requirements for *one* concentration area; specific courses are outlined below:

- a. Basic music courses (22 semester hours)
Music 110; 111, 112; 401, 402; and 4 semester hours of individual instruction in piano, organ, voice, or orchestral instrument.
- b. Concentration areas (choose one)
 1. Applied Music (4 semester hours)
4 semester hours of individual instruction in upper-division courses
 2. Music History and Literature (6 semester hours)
Two of the following courses: Music 411, 412, 413, 414
 3. Church Music (9 semester hours)
Music 316, 317, 418 (*or* 419)

PHILOSOPHY

The Major: 27 semester hours in philosophy courses, including Philosophy 111, 112, 221 (*or* 222), 311, 312, and 12 additional semester hours, at least 6 of which must be from the upper division.

The Minor: 18 semester hours in philosophy courses, including Philosophy 111, 112, and 12 additional semester hours, at least 6 of which must be from the upper division.

PHYSICAL SCIENCE: (*See* CHEMISTRY AND PHYSICS)

PHYSICS: (*See* CHEMISTRY AND PHYSICS)

POLITICAL SCIENCE

The Major: 30 semester hours in political science courses, including Political Science 121, 122, 221, 222, and 18 additional semester hours from the upper division.

The Minor: 18 semester hours in political science courses, including Political Science 121, 122, 221, 222, and at least 6 additional semester hours from the upper division.

PSYCHOLOGY

The Major: 24 semester hours in psychology courses, including Psychology 111, 112, 215, 315, and 12 additional semester hours, at least 9 of which must be from the upper division.

The Minor: 18 semester hours in psychology courses, at least 6 semester hours of which must be from the upper division.

SOCIOLOGY AND ANTHROPOLOGY

The Major: 24 semester hours in sociology courses, including Sociology 211, 422, 426, and 15 additional semester hours, at least 12 of which must be from the upper division. No more than three semester hours towards a major will be accepted from the social-work courses, Sociology 423, 424, 425.

The Minor: The Department of Sociology and Anthropology offers a choice of three minors, one in sociology, one in industrial sociology, and one in anthropology; the requirements are as follows:

- a. *Sociology:* 18 semester hours in sociology courses, including Sociology 211, and 15 additional semester hours from the upper division.
- b. *Industrial Sociology:* 18 semester hours in sociology courses, including Sociology 211, 311, 413, 414, and 415, and 3 additional semester hours from the upper division.
- c. *Anthropology:* 18 semester hours, in anthropology courses, including Anthropology 211, 212.

SPANISH: (See MODERN LANGUAGES)

SPEECH AND DRAMA: The Department of Speech and Drama offers majors in general speech, public address, radio and television, speech pathology and audiology, and theatre and oral interpretation. The specific requirements for each are outlined below:

The Majors:

General Speech: 30 semester hours in speech courses, including Speech 111 (or 112), 121, 150, 231, 245, 251 (or 252, or 253), 300 (two semesters), and 10 additional semester hours from the upper division. Majors must participate in the dramatic activities of the department.

Public Address: 32 semester hours in speech courses including Speech 111 (or 112), 121, 245, 231, 331, 300 (two semesters), and 15 additional semester hours chosen from the following: Speech 330, 332, 381, 382, 431, 432, 433.

Radio and Television: 32 semester hours in speech courses, including Speech 111 (or 121), 245, 280, 281, 282, 300 (two semesters),

and 15 additional semester hours from the following courses: 351, 381, 382, 383, 384, 452, 481, 482.

Speech Pathology and Audiology: 36 semester hours in speech courses, including Speech 111 (or 121), 245 (or 253), 261, 262, 263, 361, 362, 363, 364, 461, 462.

Theatre and Oral Interpretation: 32 semester hours in speech courses, including Speech 111 (or 112), 121, 150, 245, 251, 252 (or 253), 300 (two semesters), and 12 additional semester hours chosen from the following: Speech 345, 346, 351, 352, 353, 354, 355, 381, 382, 445, 451, 452, 457, 458, 492. Majors must participate in dramatic activities of the department.

The Minor: 18 semester hours in speech courses, including Speech 111, 121, 245, 300 (one semester), 231 (or 251 or 252 or 253), and 5 additional semester hours from the upper division.

THE SCHOOL OF BUSINESS ADMINISTRATION

HERBERT JOHN MARKLE, B.B.A., M.A., Ph.D., *Dean*
Room 100, The School of Business Administration Building

THE function of The School of Business Administration is to provide the basic education necessary to prepare a person to enter the profession of business. A significant characteristic of the school is that it provides for concentration in the basic areas of economics and business, not as a substitute for, but as a part of a broad liberal education. From forty to sixty per cent of the course work taken for the Bachelor of Business Administration degree is taken in such areas as the humanities, the natural and physical sciences, and the social sciences.

AREAS OF PROFESSIONAL TRAINING

The School of Business Administration offers a wide selection of general and specialized fields, each of which has programs designed to prepare students for a variety of careers:

Careers in Accountancy: Accounting is a vital activity in any business. The increased complexity of financial records resulting from federal regulations and the expanded use of automation necessitates a highly technical background for persons who prepare financial reports. The Department of Accountancy offers preparation in governmental, industrial, and public accounting. It administers the testing program of The American Institute of Certified Public Accountants, the national scope of which enables students to check their individual ratings with national averages. Graduates with a major in accounting are qualified to take the Certified Public Accountants' examination in Tennessee; students desiring a career in public accounting are encouraged to intern with a public accounting firm in their senior year.

Careers in Business Research: With a Bureau of Business Research operating as a function of The School of Business Administration, practical experience can be gained by those who wish to specialize in this fascinating and rapidly developing area of administration. The demand for researchers by industry is mounting by leaps and bounds. In addition, those majoring in other areas,

may gain some introduction to the techniques and abilities of the research function.

Careers in Economics and Finance: A sound understanding of our economic system is a must for today's businessman. In addition, business employs the professional economist for forecasting and explaining the effect of changing economic variables. Many economists are employed by government for comparable reasons. Training in economics is designed to increase awareness of economic problems and encourage the student to analyze alternative solutions for himself.

Courses in finance are designed to prepare the student for careers in financial institutions, and the finance departments of business. Governmental finance broadens the student's understanding of important national and international problems and encourages the consideration of alternative solutions.

Careers in Management: The decisions of management in business are more and more being recognized as having broad implications extending beyond the individual firm. In recognition of this, the Department of Management offers the broad preparation necessary for future managers, with specialization in a number of important areas.

Careers in Marketing: The Department of Marketing provides training for those interested in the growing field of distribution. The young person possessed of energy, ability, and the competitive urge will discover that training and development in marketing skills opens many opportunities in serving the public as well as material reward. Training will prepare for occupations in the field of retailing, advertising, purchasing, wholesaling, industrial marketing, sales management, or marketing research. Students have the opportunity to gain valuable work-experience during the senior year in their specific major in marketing.

Careers as Professional Secretaries: The value of a secretary, either man or woman, with a university degree is receiving increasing recognition by business executives; the same thing is true in the field of office management. Thorough training in both fields is provided by the Department of Secretarial Science and Office Management.

Careers in Business Education: Preparing students to teach business subjects in the secondary schools is an important function of The School of Business Administration. A student with a major in any one of the five departments of the school may qualify for a

high school teaching certificate; he will minor in education and complete the certification requirements outlined on page 97. The chairman of the Department of Secretarial Science and Office Management serves as adviser to all students in the School of Business Administration preparing for a career in business education.

THE PRE-LAW CURRICULUM

A student enrolled in The School of Business Administration who wishes to prepare himself for entrance to law school may qualify for the Bachelor of Business Administration degree by completing all the requirements of the pre-professional degree program outlined on page 94 and by completing successfully one year at a law school of an accredited university. He must (1) meet all the lower-division requirements of The School of Business Administration as outlined on page 124 (2) complete the required core courses in the upper division as outlined on page 125 (with the omissions as explained on that page); (3) select a major in either accountancy, economics, or management and meet the requirements listed in the section beginning on page 127 (4) select a minor in one of the other foregoing departments or some other department in the University, and meet the requirements as determined by the chairman of the department concerned; and (5) complete a minimum of 99 semester hours overall before entering law school. All upper-division courses taken in fulfillment of this program must be approved by the chairman of the department in which the student is majoring. Students frequently prefer to get the bachelor's degree before entering law school. In that case, any major in The School of Business Administration may be selected, and the regular program for that major, as outlined in the catalog, should be followed.

ORGANIZATION OF THE SCHOOL

The School of Business Administration comprises five departments: Accountancy, Economics and Finance, Management, Marketing, and Secretarial Science and Office Management. These departments offer a variety of majors and minors, the detailed requirements for which are listed in the section beginning on page 127.

The Bureau of Business Research, sponsored by the governments of the City of Memphis and Shelby County, operates as a separate function of the school. A trained and experienced staff of researchers, under a director, operates the Bureau.

The school is organized into a lower division and an upper division:

THE LOWER DIVISION comprises the freshman and sophomore years, the first four semesters of university work. Courses offered in the lower division are numbered from 100 through 299; the student must register consistently for all of his lower-division requirements until they are completed.

THE UPPER DIVISION comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the upper division are numbered from 300 through 499.

A few courses in the 500 series (normally open only to graduate students) are open to seniors within 36 semester hours of graduation; such courses are identified by the "S" prefixed to the course number (e.g., Economics S-513, Seminar in Economics).

LABORATORY FACILITIES

The School of Business Administration provides nine laboratories for development of facility in business: four accounting laboratories with individual tables for students; three secretarial laboratories, two for typewriting and one for general secretarial and office practice; one laboratory for statistics, equipped with adding machines and calculators; and laboratory work on electronic data computers. In addition the facilities of the Bureau of Business Research are available for research laboratory training.

ADMISSION

The requirements for admission to The School of Business Administration are those set up for the University as a whole; see page 60.

A student who has attended another accredited college or university, or who has received correspondence and/or extension credit from such an institution, will be given credit for all acceptable residence work and for a maximum of 33 semester hours in acceptable correspondence and/or extension work. To be acceptable, a course must be approved by the Committee on Admissions and the quality point average must meet the minimum standards set by the University; see page 86 for details.

RESIDENCE REQUIREMENTS

A transfer student must be in residence at Memphis State University during his final semester before graduation and for at least

one additional semester during his junior and senior years. He must take a minimum of 15 semester hours of work in The School of Business Administration, of which 9 or more must be in his major field. He must complete 6 or more semester hours in his minor. If the minor is in The School of Business Administration, the 6 hours may be a part of the required 15. Adjustments in major requirements may be made where feasible, but only with the approval of the dean of The School of Business Administration.

University residence requirements are explained in detail on page 93.

DEGREE REQUIREMENTS

The School of Business Administration offers the degree of Bachelor of Business Administration. To qualify for this degree the student must complete 132 semester hours with a quality point average of 2.0 (on a scale where A gives 4 quality points; B, 3; C, 2; D, 1). Of the 132 semester hours required for graduation, at least 48 must be in courses from the upper division (those numbered above 299). A grade of C or better must be earned in every upper-division course applied toward satisfaction of the specific major and minor.

General requirements for the degree include the successful completion of (I) required courses in the lower division; (II) required courses in the upper division; (III) requirements for a major in The School of Business Administration; and (IV) requirements for a minor in either The School of Business Administration or another school of the University. Required courses cannot be dropped except under very special conditions. Requirements are outlined in detail in the sections which follow.

I. REQUIRED COURSES IN THE LOWER DIVISION

(Figures in parentheses indicate semester hours credit. One-semester courses may be taken either semester)

First Semester

English 111 (3)
Speech 101 (3)
A biological or physical science (3)
Management 101 (3)
Physical Education 100 (1)
Air Force ROTC 111 (for men) (1)
An elective course (3)

Second Semester

English 112 (3)
Mathematics 107, or a higher numbered mathematics course (3)
A biological or physical science (3)
Psychology 111 (3)
Physical Education 100 or 200 (1)
Air Force ROTC 112 (for men) (2)
An elective course (3)

NOTES:

- a. The student who expects to major in accountancy may, with permission of his adviser enroll in Accounting 201 and 202 in his freshman year, taking Accounting 272 (Laboratory) along with Accounting 202.
- b. Typewriting ability is a basic requirement. Every student will enroll in a typewriting class during his first semester in The School of Business Administration or arrange to take a proficiency examination. If he fails the proficiency examination, he must enroll in a typewriting class the following semester; he must pass either the typewriting course or the test before he arrives at junior classification.
- c. The science requirement must be met by a two-semester sequence course.
- d. Air Force ROTC is required of all men except those excused by the Professor of Air Science; for details see page 98.

Third Semester

Accounting 201 (3)
 English 211 (3)
 History 221 (3)
 Economics 211 (3)
 Physical Education 200 (1)
 Air Force ROTC 211 (for men)
 (2)
 An elective course (3)

Fourth Semester

Accounting 202 (3)
 English 212 (3)
 History 222 (3)
 Economics 212 (3)
 Physical Education 200 (1)
 Air Force ROTC 212 (for men) (1)
 An elective course (3)

NOTES:

- a. Accounting 311 and 312 may be taken by the student with credit in Accounting 202.
- b. The student planning to major in secretarial science may start shorthand in the sophomore year.
- c. Men taking Air Force ROTC 211 and 212 may be excused from the two semesters of Physical Education 200.
- d. If a student has credit in Accounting 202 and Economics 211, he may enroll in Management 341 during his fourth semester.
- e. Marketing 301 should be taken in the fourth semester by marketing majors and by all others who can fit it into their schedules (and who have completed Economics 211).

II. REQUIRED CORE COURSES IN THE UPPER DIVISION

Every student enrolled for the degree of Bachelor of Business Administration, with the exceptions noted below, must complete successfully the following six courses:

Economics 361, Money and Banking I (3)
 Management 301 and 302, Business Law (6)
 Management 341, Business Organization (3)
 Management 371, Business Statistics (3)
 Marketing 301, Principles of Marketing (3)

NOTES:

- a. Students enrolled in the three-year pre-law curriculum will omit Management 301 and 302 and Marketing 301.
- b. Majors in secretarial science will take Management 301 and 302 and two additional courses from the above list (12 semester hours).

III. THE MAJOR

With the assistance of his adviser, each student, not later than the beginning of his junior year, will select from the list below an area of specialization, called the major. After selecting his major the student will report to the dean of The School of Business Administration for assignment to a major professor in the department in which the major is offered. Listed below are the five departments of The School of Business Administration and the areas of specialization offered in each; the specific courses required by each department for the satisfaction of its majors are listed in the section beginning on page 127.

DEPARTMENT OF ACCOUNTANCY

Governmental accounting
Industrial accounting
Pre-law curriculum
Public accounting

DEPARTMENT OF ECONOMICS AND FINANCE

Banking
Business finance
Economic analysis and research
Economic theory
Government finance
Investments
Pre-law curriculum

DEPARTMENT OF MANAGEMENT

Business research
General business management
Industrial management
Insurance
Personnel administration and industrial relations
Pre-law curriculum
Real estate
Transportation

DEPARTMENT OF MARKETING

Advertising
Physical distribution
Retail management
Sales management
Wholesale-industrial marketing

DEPARTMENT OF SECRETARIAL SCIENCE AND OFFICE

MANAGEMENT
Office management
Secretarial science

IV. THE MINOR

To broaden his background every student is required to complete sufficient work in an area other than his major to evidence some degree of specialization in that area. Two options are available:

a. The minor in The School of Business Administration

If the student elects a minor from The School of Business Administration, he must choose one from a department other than the one in which his major is offered. The minor program must be approved by the chairman of the minor department early in the student's junior year; it must include a minimum of 9 semester hours of courses from the upper division. (A student whose major is in another school of the University and who wishes a minor in The School of Business Administration may choose a minor from any department; the requirements are listed, by departments, below. A general minor in business administration is not available.)

b. The minor in another school of the University

The student whose major is in The School of Business Administration may complete a minor in any one department of any school of the

University, provided that such a minor consist of a minimum of 18 semester hours, at least 6 semester hours of which must be in courses from the upper division (numbered above 299).

DEPARTMENTAL REQUIREMENTS FOR MAJORS AND MINORS

DEPARTMENT OF ACCOUNTANCY: The objective of the Department of Accountancy is to provide the graduate with a substantial background in accountancy which will enable him to adjust himself to any accounting situation and to advance rapidly in government, industry, or public accounting practice. The curriculum is designed to enable the student to achieve mastery of the generally accepted accounting principles and procedures as they are applied in all fields of accounting and to study modern accounting trends and techniques and the current controversial topics in his profession.

Specialization is provided in (1) governmental accounting, (2) industrial accounting, and (3) public accounting.

The Major: Accounting 272 (Laboratory) and a minimum of 27 semester hours in upper-division accounting courses, as follows:

311 and 312, Intermediate Accounting I and II
331 and 332, Cost Accounting I and II
421, Advanced Accounting I
451, Federal Income Tax I
324, Internal Auditing (if the specialization is industrial accounting)

or

424, Auditing I (if the specialization is public accounting)
Two additional upper-division accounting courses, approved by the department chairman

The Three-Year Pre-Law Major (see page 122)

Accounting 311 and 312, Intermediate Accounting I and II
Accounting 331, Cost Accounting I

Three additional accounting courses selected from the following:
Accounting 332, 421, 422, 424, 425, 445, 446, 451, 452, 454

The Minor: a minimum of 19 semester hours in accounting courses, as follows:

201 and 202, Fundamentals of Accounting
272, Accounting Laboratory
311, Intermediate Accounting I
331, Cost Accounting I

Two additional upper-division accounting courses, approved by the department chairman

DEPARTMENT OF ECONOMICS AND FINANCE

The Major in Economics (THE SCHOOL OF BUSINESS ADMINISTRATION):
a minimum of 21 semester hours in upper-division courses, as follows:

312, Economics of Business Enterprises

321, Labor Economics

413, Economic Theory I

A minimum of 12 semester hours in courses related to one of the following areas, selected with the approval of the major professor:

Economic analysis and research

Economic theory

The Major in Economics (THE SCHOOL OF ARTS AND SCIENCES): the student will be required to meet the requirements for either the Bachelor of Arts or the Bachelor of Science degree plus the specific major requirements:

211, 212, Principles of Economics I and II

361, Money and Banking I

411, Development of Economic Thought

413, Economic Theory I

492, National Income Analysis and Fiscal Policy

Management 371 or Mathematics 321, Statistics

Two additional approved upper-division courses, for a total of 27 semester hours

The Three-Year Pre-Law Major (see page 122)

Six economics courses selected from the following: Economics 312, 313, 321, 413, 451, 461, 462, 491, 492, 493

The Major in Finance: a minimum of 21 semester hours in upper-division economics courses, as follows:

451, Public Finance

461, Money and Banking II

491, Government Regulation and Business Policy

A minimum of 12 semester hours in courses related to one of the following areas, selected with the approval of the major professor:

Banking

Business finance

Government finance

Investments

The Minor:

a. For students whose major is within The School of Business Administration: three approved upper-division courses in economics or finance, exclusive of the basic upper-division requirements for the Bachelor of Business Administration degree.

b. For students whose major is in another school of the University:

ECONOMICS MINOR: Economics 211 and 212, Principles of Economics I and II

Economics 361, Money and Banking I

Economics 413, Economic Theory I

Two additional approved upper-division courses

FINANCE MINOR: Accounting 201 and 202, Fundamentals of Accounting

Economics 211 and 212, Principles of Economics I and II

Economics 361, Money and Banking I
Management 341, Business Organization
Two additional approved upper-division courses

DEPARTMENT OF MANAGEMENT

The Major: a minimum of 21 semester hours in upper-division courses, as follows:

Economics 312, Economics of Business Enterprise

Economics 321, Labor Economics

Management 441, Corporation Finance

or

Management 442, Management of Business Enterprise

A minimum of 12 semester hours in courses related to one of the following areas, selected with the approval of the major professor:

Business research

General business management

Industrial management

Insurance

Personnel administration and industrial relations

Real estate

Transportation

The Three-Year Pre-Law Major (see page 122)

Six management courses selected from the following:

Management 322, 331, 335, 345, 422, 431, 432, 441, 442, S503, S505

The Minor:

- a. For the student whose major is within The School of Business Administration: three approved upper-division courses in management, exclusive of the basic upper-division requirements for the Bachelor of Business Administration degree.
- b. For the student whose major is in another school of the University:
Accounting 201 and 202, Fundamentals of Accounting
Economics 211 and 212, Principles of Economics I and II
Economics 361, Money and Banking I
Management 341, Business Organization
Two additional approved upper-division courses in management

DEPARTMENT OF MARKETING: The objective of the Department of Marketing is to provide the student with a broad concept of the marketing process and to develop an understanding of all the factors involved in the collection and distribution of goods and services.

The Major: a minimum of 24 semester hours in upper-division marketing courses, as follows:

351, Principles of Advertising

361, Salesmanship

381, Principles of Retailing

401, Marketing Administration

A minimum of 12 semester hours (15 semester hours for Sales) in upper-division courses applicable to the specific major; the specific major and the applicable courses will be selected, in conference with the adviser, from the following:

- 1) ADVERTISING: designed to provide an understanding of mass communication media, advertising agencies, retail advertising departments, advertising management, and other advertising activities. A minimum of four courses will be chosen from the following:

- 314, Advertising Copy Writing
- 315, Advertising Design I
- 316, Advertising Design II
- 352, Advanced Advertising
- 358, Advertising Law and Business Ethics
- 454, Industrial Advertising
- 455, Television and Radio Advertising
- 456, Retail Advertising, Display and Promotion
- 458, Advertising Agency Management
- 491, Marketing Research
- 499-A, Work Experience in Advertising

- 2) PHYSICAL DISTRIBUTION: this major covers efficient acquisition and movement of products at all levels including purchasing and transportation. A minimum of four courses will be chosen from the following:

- 420, Physical Distribution
- 421, Wholesale-Industrial Marketing
- 422, Purchasing
- 491, Marketing Research
- 499-B, Work Experience in Physical Distribution
- Accounting 331, Cost Accounting I
- Accounting 332, Cost Accounting II
- Economics 304, Transportation
- Management 449, Time and Motion Analysis
- Secretarial Science 442, Office Management

- 3) RETAIL MANAGEMENT: this major gives the student a background in the operation and management of a retail establishment. A minimum of four courses will be chosen from the following:

- 312, Textiles
- 382, Buying and Pricing
- 456, Retail Advertising, Display, and Promotion
- 481, Home Furnishing and Equipment
- 482, Retail Policies and Problems
- 485, Credit and Collections
- 491, Marketing Research
- 499-C, Work Experience in Retail Management

- 4) **SALES:** this major gives the student a thorough grounding in the techniques of making sales presentations effectively and prepares him to enter the field of sales management. A minimum of five courses will be chosen from the following:
- 362, Sales Theory and Techniques
 - 366, Sales Promotion
 - 421, Wholesale-Industrial Marketing
 - 422, Purchasing
 - 461, Sales Management
 - 462, Sales Supervision and Training
 - 485, Credit and Collections
 - 491, Marketing Research
 - 499-D, Work Experience in Sales
- 5) **WHOLESALE-INDUSTRIAL MARKETING:** this major presents a broad view of distribution and procurement of goods and services at wholesale and industrial levels, including agricultural products. A minimum of four courses will be chosen from the following:
- 321, Marketing Farm Products
 - 421, Wholesale-Industrial Marketing
 - 425, Product Planning
 - 428, International Marketing
 - 435, Cotton Marketing
 - 461, Sales Management
 - 491, Marketing Research
 - 499-E, Work Experience in Wholesale-Industrial Marketing
 - Industrial Arts 341, Engineering Materials

The Minor:

- a. For the student whose major is within The School of Business Administration: three approved upper-division courses in marketing, exclusive of the basic upper-division requirements for the Bachelor of Business Administration degree.
- b. For the student whose major is in another school of the University:
- Accounting 201 and 202, Fundamentals of Accounting
 - Economics 211 and 212, Principles of Economics I and II
 - Marketing 301, Principles of Marketing
- Three additional upper-division marketing courses approved by the department chairman

DEPARTMENT OF SECRETARIAL SCIENCE AND OFFICE MANAGEMENT

The student planning to major in either secretarial science or office management will take in his freshman year Secretarial Science 121 and 122, Elementary Typewriting I and II. If he has had previous training in typewriting, he may, with the approval of his adviser, omit 121 and take 122 and a higher-numbered typewriting course, or one semester of an elective.

The student planning to major in secretarial science will take, in his sophomore year, Secretarial Science 211 and 212, Fundamentals of Shorthand I and II. If he has had previous training in shorthand, he may, with the approval of his adviser, omit 211 and take 212 and a higher-numbered shorthand course, or one semester of an elective. Students planning to major in office management may omit shorthand from their programs.

NOTE: No more than 3 courses (9 semester hours) in typewriting may be applied toward satisfaction of the degree requirements by a student with high school credit in typewriting.

The Major in Secretarial Science: a minimum of 24 semester hours of upper-division secretarial science courses, as follows:

- 311, Advanced Shorthand
- 351, Business Report Writing
- 352, Business Letter Writing
- 371, Secretarial Office Machines
- 431, Applied Secretarial Practice
- 442, Office Management I

Two of the following courses, selected in conference with the adviser:

- 312, Advanced Shorthand
- 321, Advanced Typewriting
- 421, Secretarial Typewriting
- 432, Applied Secretarial Practice II
- 433, Secretarial Dictation
- 452, Executive Communication
- S-542, Office Management II

The Major in Office Management: a minimum of 24 semester hours of upper-division courses, as follows:

- 351, Business Report Writing
- 352, Business Letter Writing
- 371, Secretarial Office Machines
- 442, Office Management I
- Accounting 321, Financial Statement Analysis
- Economics 312, Economics of Business Enterprise

One of the following courses, selected in conference with the adviser:

- 452, Executive Communication
- S-542, Office Management II
- Management 421, Personnel Administration
- Management 441, Corporation Finance
- Management 442, Management of Business Enterprise
- Marketing 485, Credit and Collections

The Minor in Secretarial Science:

- a. For the student whose major is within The School of Business Administration: one course (above the beginning courses) in shorthand; one course (above the beginning courses) in typewriting; and two additional upper-division courses in secretarial science approved by the department chairman.

- b. For the student whose major is in another school of the University:
 - 121 and 122, Elementary Typewriting I and II
 - 211 and 212, Fundamentals of Shorthand I and II
 - 311, Advanced Shorthand I
 - Two or three additional approved upper-division courses in secretarial science

(If the student can demonstrate proficiency in either typewriting or shorthand, he may omit either Secretarial Science 121 or 211, thus reducing the hours required for the minor from 21 to 18; a minimum of 18 semester hours is required).

The Minor in Office Management:

- a. For the student whose major is within The School of Business Administration:
 - 351, Business Report Writing
 - 352, Business Letter Writing
 - 371, Secretarial Office Machines
 - 442, Office Management
- b. For the student whose major is in another school of the University:
 - Accounting 201 and 202, Fundamentals of Accounting
 - Economics 211 and 212, Principles of Economics I and II
 - Secretarial Science 442, Office Management
 - Two additional upper-division courses in secretarial science approved by the department chairman.

THE SCHOOL OF EDUCATION

SAM HOWARD JOHNSON, B.S., M.Ed., Ed. D., *Dean*
Room 107, Education Building

THE School of Education has as its objectives (1) to be an articulated part of the general and cultural program of the University; (2) to provide a program of teacher education which promotes the growth and development necessary for successful teaching; (3) to recruit desirable candidates for the teaching profession; (4) to assist in placing teachers; (5) to provide professional service to public schools in the service area; and (6) to develop and carry out a continuing program of educational research. Several curricula leading to the degree of Bachelor of Science are available. Candidates for this degree take required and elective courses within The School of Education and, in preparation for teaching in certain areas, take courses in The School of Arts and Sciences and in The School of Business Administration. Students who wish to matriculate in the teacher education program must meet the special criteria of that program in addition to the general University admission requirements. Applications for admission to this program cannot be considered until the student has completed a minimum of one and one-half years of college work to the satisfaction of the faculty of The School of Education. For details see page 136.

ACCREDITATION

The School of Education holds membership in the American Association of Colleges for Teacher Education. Its undergraduate programs for the preparation of elementary and secondary teachers are fully accredited by the National Council for Accreditation of Teacher Education.

ORGANIZATION OF THE SCHOOL

The School of Education comprises five departments: Curriculum and Instruction, Educational Administration and Supervision, Health and Physical Education, Home Economics, and Music Education. These departments offer a variety of majors and minors, the detailed requirements for which are listed in the section beginning on page 139. The University Campus School, a public school comprising grades 1 through 6, is operated under the supervision of The School of Education.

The School of Education is organized into a lower division and an upper division:

THE LOWER DIVISION comprises freshman and sophomore years, the first four semesters of university work; courses offered in the lower division are numbered from 100 through 299. In order to be admitted to the upper division, the student must have completed the work of the lower division with an average grade of C (2.0). In addition, he must have submitted to his adviser for approval a complete program of study for work in the upper division. Students who complete the work of the lower division with less than a C average will be given one additional semester in which to reach this standard. If, at the end of this additional semester, the student's average is below C, he will be advised to withdraw from the University.

THE UPPER DIVISION comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the upper division are numbered from 300 through 499. Students who have completed the required number of hours and the required residence to be classified as juniors, but who have not completed their basic requirements in the lower division, must schedule these uncompleted requirements during the first semester in which such courses are available. Forty-five semester hours are required in the upper division. In the upper and lower-division requirements no grade of less than C will be accepted in areas of endorsement and in professional courses.

THE UNIVERSITY CAMPUS SCHOOL

The University Campus School, located east of The School of Education Building, is a public school comprising grades 1 through 6, operated by the University as a part of the public school system of the City of Memphis; it offers a broad program of training for approximately 700 students. This school serves the teacher education program as a laboratory in which prospective teachers observe and study, and where a limited number practice the art of teaching. Varied opportunities are offered University students to study children, to study a school program, and to participate in teaching activities. Through The Campus School arrangements have been made for the use of other city schools for purposes of teacher education. Student experiences with the teachers of The Campus School, and with the many other fine teachers in the area, are considered an integral part of preparation for a teaching career.

The University also conducts a Nursery and Kindergarten School, administered by the principal of The Campus School in cooperation with the Department of Curriculum and Instruction and the Department of Home Economics. The school is a non-profit institution and tuition charges are determined by the cost of operation.

ADMISSION

The requirements for admission to The School of Education are those set up for the University as a whole; see page 60.

ADMISSION TO TEACHER EDUCATION PROGRAM

Students who enter Memphis State University for the first time after September 1, 1962 and who wish to prepare themselves for careers as teachers must make formal application for admission to the teacher education program during the second semester of the sophomore year. Students who transfer to Memphis State University after the completion of their sophomore year, or with more than 45 semester hours of credit, must make application during their first semester of residence at Memphis State.

The following factors will be considered by the screening committee in determining a student's eligibility for admission to the teacher education program: (1) academic aptitude, (2) academic achievement, (3) proficiency in English and mathematics, (4) health, (5) social adjustment, (6) communication skills, (7) interest in teaching, and (8) the desire to work effectively with students.

Once admitted to the teacher education program the student must maintain the standards required for admission. If the student falls below any of these standards, his name will be removed from the file of students matriculated in teacher education and he will be advised of this action. He may then either try to bring his record up to a level suitable for re-admission, or drop out of the teacher education program.

In order to be graduated and certified to teach, a student must (1) meet all standards established for admission to the teacher education program, (2) make formal application for and be admitted to that program, (3) complete all requirements for certification (outlined on page 95), and (4) complete all degree requirements in the school of the University in which he is enrolled.

All graduates of the School of Education must be qualified for a teaching certificate.

No student will be enrolled for a course in student teaching until he has been admitted to the teacher education program and has met all the prerequisites for student teaching.

Application forms for admission to the teacher education program may be secured from the office of the dean of The School of Education, Room 107, Education Building. For a detailed explanation of all requirements, the student should consult with his adviser.

DEGREE REQUIREMENTS

To qualify for the Bachelor of Science degree in The School of Education the student must complete 132 semester hours with a grade point average of 2.0 (on a scale in which A has the quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 45 must be in courses from the upper division (those numbered above 299).

At least 60 semester hours of the credit applied on the degree must be in liberal content. Courses in the following fields offered in The School of Arts and Sciences will meet this requirement: anthropology, art (non-applied), biology, chemistry, English, geography, history, journalism (non-applied), languages, mathematics, music (non-applied), philosophy, physics, political science, psychology, sociology, and speech. The following courses offered in The School of Education will meet this requirement: Education 102, 451, 452, and 453; Health 101; Home Economics 171, 181, 241, and 471.

General requirements for the degree include the successful completion of (I) the general education program, (II) the professional education program, (III) physical education activity courses, (IV) a major in The School of Education, and (V) certification in two or more teaching areas. These requirements are outlined in detail in the sections which follow.

I. THE GENERAL EDUCATION PROGRAM (48 semester hours)

(Courses taken to meet the requirements of this section may, if applicable, be used to meet the requirements of Section V, below.)

English 111, 112, 211, and 212

Health 101

History 221, 222

Mathematics 101, 102 (for students desiring an elementary certificate)

or

Mathematics 101 *or* any higher-numbered mathematics course (for students desiring a secondary certificate)

Science: 9 semester hours (including one two-semester sequence course) in one or two of the following sciences: biology, chemistry, physics, physical geography (Geography 111, 112)

One course (3 semester hours) in one of the following social sciences: anthropology, economics, geography (other than Geography 111, 112, 411, 412), political science, sociology

Two courses (3 semester hours each) in the humanities, one course to be chosen from each of *two* of the following departments: Art, Classical Languages, History, Modern Languages, Music, Philosophy, Psychology, Speech and Drama

One of the following courses: Home Economics 171, 241, 471, 482; Industrial Arts 362; Economics 313; Psychology 111, 213, Sociology 211.

II. THE PROFESSIONAL EDUCATION PROGRAM (24 semester hours)

Education 102, 201, 203, and the courses in one of the following groups:

For the elementary certificate: Education 385, 386, 387, and 425

For the secondary certificate: Education 381, 391, and 415

III. PHYSICAL EDUCATION ACTIVITY COURSES

Four semesters of physical education activity courses; students completing two years of Air Force ROTC courses are required to take only two semesters of physical education. No student other than a physical education major may apply more than four semester hours of basic physical education to the minimum degree requirements of 132 semester hours.

IV. A MAJOR IN THE SCHOOL OF EDUCATION

The student will choose one of the following majors offered in The School of Education. The specific courses required for the satisfaction of these majors are listed below.

Elementary education (offered in the Department of Curriculum and Instruction)

Health

Health and Physical Education

Home economics

Music education

Secondary education (offered in the Department of Curriculum and Instruction)

V. CERTIFICATION IN TWO OR MORE TEACHING AREAS

The student must complete the requirements of individual departments for certification in the State of Tennessee in *two* or more teaching areas (combined minimum of 36 semester hours) with a 2.250 average in each, unless special exception is made by the dean of The School of Education. Specific course requirements for all of the endorsements offered in the University are listed in the section beginning on page

DIRECTED STUDENT TEACHING

Directed student teaching, offered in the University Campus School and in cooperating schools in the Memphis and Shelby County school systems, provides opportunities for observation of good teaching practices and for practical teaching experience under the direction of supervising teachers.

Students preparing to teach in the elementary schools are required to enroll for nine semester hours of student teaching to be done on an all-day basis for one half a semester. Students preparing to teach in the secondary schools are required to enroll for nine semester hours of student teaching to be done three hours daily for an entire semester, or all day for one half a semester. **NOTE:** *Students who enroll for student teaching on an all-day basis may not register for any other course which is scheduled to meet during the half-semester in which the student teaching is done.*

Requirements for enrolling in the student teaching program are as follows:

1. The filing of an application with the coordinator of student teaching during the semester prior to the one in which the student teaching is to be done. Applications for student teaching to be done in the fall semester must be filed by April 1, for the spring semester by November 1.
2. Classification as a senior or graduate student.
3. Completion of at least one semester of residence at Memphis State University.
4. An over-all average of at least 2.000; an average in education courses of at least 2.000; an average in the endorsement area of at least 2.250.
5. Completion of Education 102, 201, and 203.
6. Completion of Education 385, 386, and 387 (for those preparing to teach in elementary schools); or Education 381 (for those preparing to teach in secondary schools).
7. Completion of either the elementary or secondary endorsement.
8. Approval by the applicant's adviser and by the coordinator of student teaching.

DEPARTMENTAL REQUIREMENTS FOR MAJORS AND MINORS

DEPARTMENT OF CURRICULUM AND INSTRUCTION. The Department of Curriculum and Instruction offers majors in two areas (elementary education and secondary education) and minors in four areas (elementary education, secondary education, library service, and special education).

The Majors

ELEMENTARY EDUCATION: 33 semester hours, as follows

Education 102, 201, 203, 385, 386, 387, 425

Three courses (9 semester hours) chosen from the following: Education 325, 351, 382, 423, 424, 426, 429, 442, 443, 444, 445, 446, 451, 452, 453, 456, 462, 466, 471, 476, S-541, S-553, S-565, S-566

Special Education 427, 428, 480, 481, 482, 483, 484, 485

Library Service 411, 421

SECONDARY EDUCATION: 33 semester hours, as follows:

Education 102, 201, 203, 381, 391, 415

Three courses (9 semester hours) chosen from the following: Education 351, 416, 451, 452, 453, 456, 461, 466, 471, 472, 476, S-541, S-553, S-565, S-566, S-584

Special Education 427, 428, 480, 481, 482, 483, 484, 485

Library Service 411, 421

The Minors: A co-requisite for all the minors listed below is the completion of the requirements for certification to teach in the State of Tennessee; these requirements are outlined in the section beginning on page

ELEMENTARY EDUCATION: 27 semester hours and co-requisites, as follows:

Education 102, 201, 203, 385, 386, 387, 425, and completion of requirements for the endorsement, grades 1 through 9.

SECONDARY EDUCATION: 24 semester hours and co-requisites, as follows:

Education 102, 201, 203, 381, 391, 415, 416, and completion of requirements for one endorsement, grades 7 through 12.

LIBRARY SERVICE: 18 semester hours in library service courses in conference with the adviser, plus certification in any area of either elementary or secondary education. (The student who wishes certification in library service should confer with the dean of The School of Education.)

SPECIAL EDUCATION: 21 semester hours in special education courses chosen in conference with the adviser, plus certification in elementary education.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND SUPERVISION. The Department of Educational Administration and Supervision does not offer courses at the undergraduate level; students who plan graduate study in this area should consult the Bulletin of The Graduate School.

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION. Majors and minors are offered in (1) health and (2) health and physical education

The Major in Health. 36 semester hours, as follows:

Health 101, 150, 231, 241, 301, 302, 416 (or 417), 450, 470, 480

Six semester hours chosen from the following courses:

Health 151 (or Biology 330)

Health 250

Health 414 (or 415)

Health 476 (or Special Education 485)

Health 417 (with permission of the instructor and provided that student has had or is enrolled in Health 416)

The Major in Health and Physical Education

FOR MEN: 42 semester hours, as follows:

Health 101, 231, 301, 302

Physical Education 111, 212, 217, 241, 245, 246, 260, 261, 310, 328, 332, 342, 351, 391, 482

Two of the following courses: Physical Education 281, 282, 283, 284

Biology 131, 132, 344

FOR WOMEN: 41 semester hours, as follows:

Health 101, 231, 301, 302

Physical Education 111, 241 243, 245, 246, 253, 260, 261, 310, 327, 328, 332, 342, 351, 391, 482

The Minor in Health. 18 semester hours, as follows:

Health 101, 231, 241, 301, 302

One of the following courses: Health 476, Sociology 312, Home Economics 471, Special Education 485 (Health 416 on recommendation of department chairman)

The Minor in Health and Physical Education

FOR MEN: 30 semester hours as follows:

Health 101, 231, 301, 302

Physical Education 328, 332, 342, 351, 391, 482

One of the following courses: Physical Education 281, 282, 283, 284

FOR WOMEN: 28 semester hours, as follows:

Health 101, 231, 301, 302

Physical Education 327 (or 328), 332, 342, 351, 391, 482

DEPARTMENT OF HOME ECONOMICS

The Major. 36 semester hours in home economics courses and 13 to 16 semester hours in related courses, as follows:

Home Economics 111, 171, 211, 241, 242, 291, 312, 341, 342, 471, 481, 482

Biology 341

Chemistry 111, 112; or one two-semester course in one of the following sciences: biology, physics, physical geography (Geography 111, 112)

Sociology 211

The Minor. 18 semester hours in home economics courses, including Home Economics 111, 181 (or 211), 241, 242, 471, and one additional course from the upper division.

DEPARTMENT OF MUSIC EDUCATION

The Major. The major requires the completion of (1) a group of basic music courses and (2) a group of courses in one of two concentration areas:

1. Basic music courses (58 semester hours):
Music 110, 111, 112, 211, 212, 301, 308, 315, 316, 401, 402
Music ensembles: 8 semester hours
Applied music (either class or individual instruction, or both, in piano, voice, winds, strings, as determined by the student's adviser.) For details of piano requirements see page 244.
2. Concentration areas (Choose one.) See page 89 for further information on endorsements.
 - a. School music (9 semester hours)
Music 317
Music Education 132, 134, 136, 321
 - b. Instrumental music (12 semester hours)
Music 317
Music Education 331
Individual instruction in one instrument: 6 semester hours

The Minor. The minor requires the completion of (1) a group of basic music courses and (2) a group of courses in one of two concentration areas:

1. Basic music courses (33 semester hours)
Music 111, 112, 211 (or any combination of basic theory courses totaling 12 semester hours.)
Music 315, 316, 401 (or 402 or 110)
Applied music (either class or individual instruction, or both, in piano, voice, winds, strings, as determined by the student's adviser.) For details of piano requirements see page 244.
2. Concentration areas. (Choose one.)
(*The requirements in each of the concentration areas for the minor are the same as for the major, outlined above.*)

THE SCHOOL OF LAW

ROBERT DOYLE COX, LL.B., LL.M., *Dean*

Room 5, Law School Annex

THE School of Law offers a program of instruction leading to the degree of Bachelor of Laws. A student may enroll in a regular program, attending classes during the day, or in an extended program, attending classes in the evening. A student in the regular program may graduate in three academic years. A student in the extended program may graduate in four academic years plus some work in intervening summer sessions. A student regularly employed more than 20 hours per week may not pursue the regular program.

To be eligible for admission a student must have completed successfully at least three-fourths of the work required for a bachelor's degree (on the basis of a four-year period of study) in an approved college or university. As it usually is applied, this requirement is that a student must present at least 90 semester hours of resident work, exclusive of physical education, military science, and certain types of non-theory courses, with a grade average of at least C in all theory courses undertaken and acceptable to be applied toward a bachelor's degree at the institution where taken. Applicants for admission beginning the study of law must have taken the Law School Admission Test administered by the Educational Testing Service, Princeton, New Jersey, and must have had their scores thereon reported to the School of Law before acceptance for admission.

Admission to advanced standing may be given to a student who qualifies for admission, and who is eligible for re-enrollment in the law school in which his previous work has been taken, provided that such school is on the approved list of the American Bar Association.

The case method of instruction is used primarily. In most courses, a written, subjective examination of the essay type is given at the end of each course, and the grade for the course will be the grade made on the examination.

The successful completion of 84 semester hours work, including all required courses, with the prescribed grade average is necessary

for graduation. The last 20 semester hours must be taken in this school.

The regulations and policies of the School of Law are set out in greater detail in a separate bulletin. Applications for admission must be made on forms supplied by the School of Law. Inquiries should be addressed to the Dean of the School of Law.

THE DEPARTMENT OF INDUSTRIAL ARTS

R. J. COLTHARP, B.A., M.S., *Chairman*
Room 100, Industrial Arts Building

THE objectives of the Department of Industrial Arts are three-fold: first, to provide professional training for (1) teachers and administrators in the specialized areas of industrial arts education, (2) elementary teachers in appropriate phases of industrial arts, (3) those interested in industrial training programs, and (4) therapists in the manual skill areas; second, to provide students in the pre-engineering curriculum with technical laboratory experiences and materials and production studies; and third, to contribute to the general education aims of the University through studies of current industrial materials and practices and participation in representative manipulative experiences.

ADMISSION

Requirements for admission to the Department of Industrial Arts are the same as those for admission to the University, outlined in the section beginning on page 60.

RESIDENCE REQUIREMENTS

A transfer student must be in residence at Memphis State University during his final semester before graduation and for at least one additional semester during his junior and senior years. University residence requirements are explained in detail on page 93.

DEGREE REQUIREMENTS

To qualify for the Bachelor of Science degree with a major in industrial arts the student must complete a minimum of 132 semester hours with a quality point average of 2.0 (on a scale in which an A has the quality point value of 4; B, 3; C, 2; D, 1). Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the upper division (those numbered above 299.) To be applicable toward a major or a minor all courses taken in the Department of Industrial Arts must be completed with a grade of C or better.

General requirements for the degree include the successful completion of (I) basic University requirements, (II) basic courses in industrial arts, (III) a major in industrial arts, (IV) a minor in another department of the University, and (V) approved elective courses. These requirements are outlined in detail in the sections which follow:

I. BASIC UNIVERSITY REQUIREMENTS:

All of these requirements must be completed before the student will be permitted to enroll in any senior courses (those numbered above 399)

English 111, 112, 211, 212

History 221, 222

Physical Education

Air Force ROTC (for men only)

II. BASIC COURSES IN INDUSTRIAL ARTS

Industrial Arts 141, 151, 161, 171, 281, and 341

III. THE MAJOR IN INDUSTRIAL ARTS

Each candidate must complete a major in one of the following areas of emphasis, detailed requirements for which will be found below.

Construction estimating

Drafting and design

Industrial arts education

Industrial technology

Wood technology

IV. THE MINOR IN ANOTHER DEPARTMENT OF THE UNIVERSITY

Each candidate must complete a minor in another department of the University; specified minors are listed for all major areas except industrial arts education.

V. ELECTIVES

The candidate will elect courses from any department in any school in the University to bring the total to 132 semester hours. The outlines of the detailed requirements for the five majors contain recommendations as to the specific areas in which these electives should be concentrated; in every case they are subject to the approval of the student's adviser.

REQUIREMENTS FOR MAJORS AND MINORS IN INDUSTRIAL ARTS

THE MAJORS

CONSTRUCTION ESTIMATING: This major is designed for students wishing to participate in the general area of contracting and estimating. Several of the courses required for this major are of the cooperative type, giving students a first-hand approach to successful estimating procedures. Specific requirements for this major are as follows:

Industrial Arts: 36 semester hours, as follows: Industrial Arts 145, 245, 252, 342, 351, 352, 355, 363, 373, 433, 447, and 453.

Management, mathematics, or marketing: Completion of a minor in one of these departments. (See page 129 for the management minor, page 116 for the mathematics minor, and page 129 for the marketing minor).

Management, mathematics, or marketing; 6 or more semester hours in each of the two not selected as the minor.

Chemistry or physics: 8-10 semester hours

Economics or sociology: 6 semester hours

Psychology: 6 semester hours

Speech: 3 semester hours

DRAFTING AND DESIGN: This major is designed for students interested in professional training in drafting and industrial design; a close correlation is maintained with programs in local industry through field study and guest lecturers in order that emphasis may be placed on current design problems, methods, and practices in industry. Specific requirements for the major are as follows:

Industrial arts: 27 semester hours as follows:

Industrial Arts 152, 251, 252, 253, 351, 352, 437, 447, 449.

Art: completion of the requirements for a minor in the Department of Art, including Art 113, 121, 122, 323 and 12 additional semester hours in art courses from the upper division.

Chemistry or physics: 6-10 semester hours

Economics or Sociology: 6 semester hours

Marketing: 6 semester hours

Mathematics: 6-10 semester hours

Psychology: 9 semester hours

Speech: 3 semester hours

(The student working toward a major in drafting and design should concentrate as many of his elective hours as possible in courses in marketing.)

INDUSTRIAL ARTS EDUCATION: This major is designed for students interested in meeting Tennessee state certification requirements for teaching industrial arts or participating in therapeutical work; special attention is given to local instructional methods and problems through visits to local schools and through interviews with local, area, and state supervisors. Specific requirements for this major are as follows:

Industrial arts:

(a) 18 semester hours as follows: Industrial Arts 252, 291, 335, 362, 372, 436

(b) Additional industrial arts courses to complete a minimum of 9 semester hours in each of *two* of the following areas: drafting, woodwork, metalwork, electricity.*

Completion of the general and professional education requirements for a secondary school certificate with endorsement in industrial arts. (Certification requirements are outlined in detail on page 85).

*The areas of specialization in industrial arts courses are identified by the second digit in the course numbers; the identifying number for courses in engineering is 4, drafting is 5 (e.g., Industrial Arts 151, Engineering Graphics); woodwork is 6; metalwork is 7; electricity is 8; and education is 9.

INDUSTRIAL TECHNOLOGY: This major is designed for students wishing to participate in industry as technologists; emphasis is placed on training for manufacturing and production, with additional emphasis on the techniques and procedures of industrial engineering. Specific requirements for this major are as follows:

Industrial arts: 27 semester hours, as follows: Industrial Arts 342, 363, 373, 433, 437, 438, 442, 447, 449

Management or marketing: completion of the requirements for a minor in one of these departments. (See page 129 for the management minor, page 129 for the marketing minor.)

Management or marketing: 6 semester hours in the department not selected as the minor

Chemistry or physics: 8-10 semester hours

Economics or sociology: 6 semester hours

Mathematics: 6-10 semester hours

Psychology: 9 semester hours

Speech: 3 semester hours

WOOD TECHNOLOGY: This major is designed for students interested in the lumber industry, especially the processing and use of lumber and wood products; close contact is maintained with local industry through visits, films, and guest lecturers. Specific requirements for this major are as follows:

Industrial arts: 36 semester hours, as follows: Industrial Arts 252, 261, 272, 342, 361, 362, 363, 372, 437, 442, 447, 449

Biology or chemistry: completion of the requirements for a minor in either biology or chemistry. (See pages 113 and 114 for the biology and chemistry minors.)

Economics or sociology: 6 semester hours

Mathematics: 6-10 semester hours

Psychology: 9 semester hours

(The student working toward a major in wood technology should concentrate as many of his elective hours as possible in management or marketing courses.)

THE MINORS:

Industrial Arts: Industrial Arts 141, 151, and 15 additional semester hours in industrial arts courses, 9 semester hours of which must be from the upper division. To be counted toward a minor, all industrial arts courses must be completed with a grade of C or better.

Safety:

Industrial Arts 335, 437

Health 231

Psychology 212

Management 335

3 semester hours in Industrial Arts 336, or

2 semester hours in Health 321 and 1 or more semester hours in Industrial Arts 336

THE DEPARTMENT OF AIR SCIENCE

ELLIS M. JONES, B.S., M.A., *Lieutenant Colonel,*
United States Air Force, Professor of Air Science,
Room B-11, Jones Hall

THE United States Air Force provides at Memphis State University a four-year program in the Reserve Officers Training Corps designed to select and train students to serve as officers in the regular and reserve components of the Air Force. The program is divided into two units of two years each: (1) the Basic Course, for which the student enrolls during his freshman and sophomore years; and (2) the Advanced Course, for which the student enrolls during his junior and senior years.

THE BASIC COURSE. This two-year course (6 semester hours) is required of all able-bodied male students at Memphis State University who are between 14 and 26 years of age; *any* exception to this regulation can be made only by the Professor of Air Science. Normally all veterans and certain members of the Armed Forces Reserves may be excused; *such students should note, however, that excuses are not granted automatically*; at the time of registration they must be prepared to present evidence of active duty to the Professor of Air Science. If they elect to enroll in Air Force-ROTC courses, they may drop them from their schedules only under the rules governing all other University courses. (A SPECIAL NOTE TO RESERVISTS: members of the Armed Forces Reserves may be excused from the Basic Course only if they have served a period of extended active military duty. Reservists who have served six months active duty under the provisions of the Reserve Forces Act of 1955, although not considered veterans, may be excused from the Basic Course with the approval of the Professor of Air Science. They are cautioned, however, that they must enroll in the Basic Course if they wish to be eligible for consideration for the Advanced Course. Air Force-ROTC training is accepted on a year-for-year basis in fulfilling reserve training requirements prescribed in the Act of 1955.)

THE ADVANCED COURSE. Cadets are selected for the Advanced Course only when they complete the Basic Course, normally at the end of their sophomore year. No student who has been excused from the Basic Course, for whatever reason, will be con-

sidered for the Advanced Course. Because all cadets who desire to enroll in the Advanced Course cannot be accommodated, the enrollment is determined by competition based upon physical qualifications, leadership potential, scholastic standing, and recommendations of instructors and tactical officers. Cadets chosen for the Advanced Course will be required to attend a summer training unit for a period of four weeks between their junior and senior years. Senior cadets enrolled under Category I (Pilot) are required to pursue a flight training program including 36½ hours of instruction in single-engine training type aircraft conducted by a civilian flying school selected by the University.

AIR FORCE COMMISSIONS. To secure an ROTC commission in the United States Air Force, the cadet must (1) complete the four-year course of instruction or have credit in lieu of portions of the training; (2) complete a summer training unit; (3) secure a baccalaureate degree from the University; and (4) be physically qualified.

MILITARY DEFERMENTS: Military deferment for an Air Force-ROTC cadet is based upon his scholastic standing, his potential for leadership, and his physical examination status. A cadet will not be deferred until he has enrolled in his second semester of Air Force ROTC and the Department of Air Science is able to determine whether or not his scholastic standing is high enough to warrant a deferment. Deferments once granted remain in effect as long as the cadet remains in good standing and until he receives his degree and commission. Some reasons for not recommending or for withdrawing a deferment are (1) poor scholastic record, (2) lack of military aptitude, (3) lack of leadership potential, (4) excessive absences, (5) withdrawal from the University, and (6) physical reasons.

PARADES AND REVIEWS. All cadets are required to participate in the Veterans' Day parade, the homecoming review, and at other times throughout the year as required.

UNIFORM DEPOSIT. A \$15.00 uniform and textbook deposit is required of all cadets. Deposits are made in the Air Force ROTC Department at the time of registration. All items lost or damaged must be paid for by the student concerned. When all items are turned in, the deposit is returned.

THE EVENING DIVISION

CALVIN MOORMAN STREET, B.S., M.S., Ed.D., *Director*

Room 207, Administration Building

THE Evening Division offers courses in each of the three undergraduate schools of the University. By providing such college courses in the evening this division aims at fulfilling several educational needs not met by the regular day program. Credit courses offered by television, on WKNO-TV, are under the supervision of The Evening Division.

A major objective is to provide instruction leading to baccalaureate degrees for those who, for a variety of reasons, are not able to attend during the day. In a large measure this is simply an extension of the day program into the evening hours. Regular courses are offered and residence credit is granted.

In addition, The Evening Division provides (a) formal courses for students already holding college degrees but desirous of further training; (b) adult vocational-technical training for those seeking upgrading or change in employment; (c) basic lower-division and pre-professional programs for those preparing to enter professional schools; and (d) an extended general education for those interested in increasing their civic and social competence.

Admission requirements for The Evening Division are the same as those for the regular day program; they are outlined on page 60. Standards of instruction and student performance are maintained at the same level established for the day program.

For students who do not desire to earn credit toward a degree, certain courses are available on a non-credit basis; students enrolled for no credit do the same classwork as the regular students but do not receive a grade or credit at the completion of the course.

Fees in The Evening Division, for both part-time and full-time students, are the same as those in the day program; see page 66. for the details. Students may arrange their schedules to take courses in both the day and evening programs without additional cost.

Inquiries should be addressed to the director of The Evening Division.

THE EXTENSION DIVISION

ELLERY EARL CRADER, B.S., M.A., Ph.D., *Director*

Room 264, Administration Building

THE Extension Division of Memphis State University is the official avenue through which services of the University are extended to areas off the campus. Both undergraduate and graduate courses are given at centers within the state where suitable advance arrangements are made. The subject matter of the extension courses is the same as that of courses taught on the campus, and grades received in these courses have the same quality value as do grades received in courses taught at the University. Regularly employed staff members of the University teach extension courses.

Candidates for degrees at Memphis State University may take a limited amount of work through the Extension Division; regulations governing the use of extension credit will be found on page 86.

Where circumstances justify, the Extension Division attempts to provide various types of help to organized groups within the University's service area. This assistance may take the form of such activities as conferences, public addresses, consultative service, and other types of school and community aid. Regularly employed staff members of the University are available for this service.

To the end that the Extension Division may continue to improve and expand its services to the people of the state, correspondence is invited with groups or individuals who are interested in any phase of its activities. Please address all inquiries and suggestions to the director of The Extension Division.

THE SUMMER SESSION

HEBER ELIOT RUMBLE, B.S., M.A., Ph.D., *Director*
104 *Education Building*

THE Summer Session consists of two terms of approximately six weeks each and offers accelerated courses in all schools and departments of the University. Students may earn twelve semester hours of graduate credit or fourteen semester hours of undergraduate credit during the summer, with a maximum of six semester hours per term for graduate students and seven semester hours per term for undergraduate students.

Applicants for admission to The Summer Session must meet all admission requirements of the University except that a transfer student who plans to attend Memphis State University *only* in The Summer Session need not submit complete transcripts from schools previously attended; he should request the registrar of the last college attended to mail a statement of good standing to the Registrar; this statement should include the student's classification.

The schedule of fees for The Summer Session is outlined on page 66.

The *Bulletin* of The Summer Session, containing the schedule of classes and information concerning registration procedures, fees, special events, etc., is issued in April of each year. Copies are available in the offices of the Dean of Admissions and the director of The Summer Session.

Part Eight

DESCRIPTION OF COURSES

DESCRIPTION OF COURSES

THE section which follows contains an alphabetical listing of all of the departments in the University. Each department entry contains a list of the faculty members in that department and a description of all course offerings. The official course title appears in bold-face type following the course number. The figures in parentheses after the description of a course denote the number of semester hours of credit for that course. If the credit is variable, to be fixed in consultation with the instructor, that fact is indicated by the minimum and maximum credit, as Biology 400 (2 to 4).

Courses are numbered according to the following system:

- 100-199 *Courses primarily for freshmen*
- 200-299 *Courses primarily for sophomores*
- 300-399 *Courses primarily for juniors*
- 400-499 *Courses primarily for seniors and for which
graduate credit is not offered*
- G400-G499 *Senior courses open to graduate students*
- S500-S599 *Graduate courses open to seniors within 36 semes-
ter hours of graduation*
- 500-599 *Courses open only to graduate students*

Course numbers have no reference to the semester in which the courses are taught.

The Schedule of Classes is published a few weeks prior to the opening of each semester and The Summer Session. It contains a listing of the specific courses to be offered, with the time, place, and instructor in charge of each section. It also contains special announcements concerning registration procedures. Copies are available in the office of the Dean of Admissions.

ACCOUNTANCY

PROFESSOR JAMES THOMAS THOMPSON, *Chairman*
Room 103, *The School of Business Administration Building*

PROFESSORS CRAWFORD and SPIGELAND

ASSOCIATE PROFESSOR L. W. CURBO

ASSISTANT PROFESSORS R. S. CURBO, FITZPATRICK, HALL,
PEEPLES, and WRAY

Requirements for the major and minor in accountancy are listed on page 127.

201. **Fundamentals of Accounting I. (3).**
Basic principles, journalizing and posting, the accounting cycle, accruals and deferments, valuation accounts, special journals including the voucher register. Both semesters.
202. **Fundamentals of Accounting II. (3).**
Payrolls, taxation, partnership, corporations, further applications of accounting theory. Both semesters. PREREQUISITE: Accounting 201.
272. **Accounting Laboratory. (1).**
The working of a practice set involving current accounting practice. Both semesters. PREREQUISITE: Accounting 201.
311. **Intermediate Accounting I. (3).**
Accounting records, end-of-period procedure, corrections of prior periods, accounting statements, comparative statements, working capital, miscellaneous ratios, profit and loss analysis, corporations. Both semesters. PREREQUISITE: Accounting 202.
312. **Intermediate Accounting II. (3).**
Cash and receivables, inventories, tangible operating assets, intangibles, investments, liabilities, reserves and valuation accounts, net income determination, statement of source and application of funds. Both semesters. PREREQUISITE: Accounting 311.
321. **Financial Statement Analysis. (3).**
Nature and scope of financial reports, business ratios, effectiveness of analysis techniques, interpretation of financial reports, study of typical statements. Fall semester. PREREQUISITE: Accounting 202.
324. **Internal Auditing. (3).**
Review and appraisal of internal accounting procedures of businesses, verification and analysis of financial and operating reports, function and organization of the internal auditing department. Spring semester. PREREQUISITE: Accounting 312.
331. **Cost Accounting I. (3).**
Material inventory records, inventory evaluation, accounting for labor, distribution of manufacturing costs, introduction to process cost. Both semesters. PREREQUISITE: Accounting 202.
332. **Cost Accounting II. (3)**
Process costs, estimated costs, standard costs, budgets. Both semesters. PREREQUISITE: Accounting 331.

- 421. Advanced Accounting I. (3).**
Partnerships, consignments, installment sales, insurance, statement of affairs, receiver's accounts, statement of realization and liquidation, annuities, estates and trusts. Fall Semester. PREREQUISITE: Accounting 312.
- 422. Advanced Accounting II. (3).**
Agencies, home and branch offices, consolidations, mergers, foreign exchange. Spring semester. PREREQUISITE: Accounting 312.
- 424. Auditing I. (3).**
Ethics in accounting practices, auditing standards and procedures, programs of audit of various accounts, construction and indexing of various papers, reports to clients. Fall semester. PREREQUISITES: Accounting 312, 332.
- 425. Auditing II. (3).**
Application of auditing principles to verification of financial statements, preparation of reports, case studies applicable to specific industries, current trends. A practice audit is carried out. Spring semester. PREREQUISITE: Accounting 424.
- 445. Accounting Systems. (3).**
Problems involved in designing accounting installations for various types of business, including the designing of clerical departments and planning of required mechanical devices. Spring semester. PREREQUISITE: Accounting 312.
- 446. Controllership. (3).**
Training in the field of administrative accounting, duties and functions of the controller, organization of the controller's office. Fall semester. PREREQUISITE: Accounting 332.
- 451. Federal Income Tax I. (3).**
Regulations pertaining to individuals and partnerships. Fall semester. PREREQUISITE: Accounting 312, or permission of the instructor.
- 452. Federal Income Tax II. (3).**
Laws and regulations for corporations, estates, and fiduciaries. Spring semester. PREREQUISITE: Accounting 451.
- 454. Governmental Accounting. (3).**
Accounting theory and practice applicable to Federal, state, and local government; and to nonprofit institutions; budgetary control; control, classification, and use of funds; financial statements and reports. Fall semester. PREREQUISITE: Accounting 312.

(The following are graduate courses for which undergraduates within 36 semester hours of graduation may enroll.)

- S-511. Accounting Theory I. (3).**
A study of the broad aspects and objectives of accounting with emphasis on generally accepted accounting principles, modern accounting trends, and contemporary controversial topics through a study of current releases of the American Institute of Certified Public Accountants, the American Accounting Association, and other research related to changing accounting concepts. PREREQUISITE: Accounting 422 or permission of the instructor.

S-512. Accounting Theory II. (3).

A further study of the development of accounting theory and the influence of professional accounting societies and regulatory agencies upon the accounting profession. PREREQUISITE: Accounting S-511.

S-524. Advanced Auditing (3).

Review and refinement of generally accepted auditing standards, procedures and extension of auditing procedures; preparation of audit reports and study of special investigations; study of auditing research bulletins of the American Institute of Certified Public Accountants, and pronouncements of the S.E.C. and other regulatory agencies. PREREQUISITE: Accounting 324 or 424 or permission of instructor.

S-531. Standard Cost. (3).

Budgets, determination of standards, variances and their functions, cost reports, profit projecting. PREREQUISITE: Accounting 332.

S-551. Advanced Taxation (3).

Selected research and study in the taxation of individuals and business organizations by federal and state governments; preparation of selected state and federal tax returns including those associated with income, excise, gift, death, sales, and payroll; tax practice and procedures. PREREQUISITE: Accounting 452 or permission of instructor.

S-581. Internship in Accounting. (3).

Seniors majoring in public accounting, after receiving approval of the accounting faculty, are placed in offices of cooperating public accounting firms to receive on-the-job training under the direct supervision of a certified public accountant and the general supervision of the University accounting staff. Credit is allowed upon acceptance of report of work done, verified by supervising accountant, and completion of a qualifying examination. Minimum time: 500 hours. Both semesters.

S-583. Current Accounting Problems I. (3).

Review of C.P.A. Examination, including theory of accounts, accounting practice, and auditing. Open to persons with substantial accounting backgrounds, and on permission of instructor. Spring semester.

S-584. Current Accounting Problems II (3).

Continuation of study of current accounting problems encountered in CPA examinations; review of business law relating to CPA examinations with emphasis on the Uniform Acts; brief review of accounting theory as it pertains to the CPA examination. PREREQUISITE: Permission of instructor.

GRADUATE COURSES IN ACCOUNTANCY

(Numbers prefixed with "G" identify undergraduate courses described in the preceding section for which graduate credit may be given. For further details of the graduate program see the Bulletin of The Graduate School.)

G-421. Advanced Accounting I. (3).**G-422. Advanced Accounting II. (3).****G-424. Auditing I. (3).**

- G-425. Auditing II. (3).
- G-445. Accounting Systems. (3).
- G-446. Controllership. (3).
- G-451. Federal Income Tax I. (3).
- G-452. Federal Income Tax II. (3).
- G-454. Governmental Accounting. (3).
- 511. Accounting Theory I. (3).
- 512. Accounting Theory II. (3).
- 524. Advanced Auditing. (3).
- 531. Standard Cost. (3).
- 551. Advanced Taxation. (3).
- 581. Internship in Accounting. (3).
- 583. Current Accounting Problem I. (3).
- 584. Current Accounting Problems II. (3).
- 591. Problems in Accounting. (1 to 3).
- 593-6. Thesis. (3 or 6).

AIR SCIENCE

LIEUTENANT COLONEL ELLIS M. JONES, JR., *Professor of Air Science*
Room B-11, Jones Hall

ASSISTANT PROFESSORS: MAJOR JENKINS, MAJOR JOSEPH,
MAJOR RUTHERFORD, MAJOR WERTZ; CAPTAIN HUFFMAN,
CAPTAIN MOISE, CAPTAIN SMITH, and CAPTAIN TERRY

Details of the Air Science program (including commissions, required courses, military deferments, etc.) will be found on page 149.

- 111. **Foundations of Aerospace Power. (1).**
Orientation to Air Force-ROTC, basic military leadership principles and practices, and participation in military drills and ceremonies.
- 112. **Foundations of Aerospace Power. (2).**
Elements of air power, basic aeronautical science, and the organization and operation of the military arm of the federal government.
- 211. **World Military Systems. (2).**
A comparative study of world military forces to include free world land and naval forces, free world air forces, communist military systems, and trends in the development and employment of military power. Two class hours per week and one hour of leadership laboratory.
- 212. **Fundamentals of Aerospace Weapon Systems. (1).**
Practical leadership activities involving small groups; moral foundations of leadership; participation in military drills and ceremonies.
- 311. **Growth and Development of Aerospace Power. (3).**
A survey course about the nature of war; development of airpower in the United States; mission and organization of the Defense Department; Air Force concepts, doctrine, and employment; astronautics and space operations; and the future development of aerospace power. Includes the United States space programs, vehicles, systems, and problems in space exploration. Three class hours per week, one hour of supervised research, and one hour of leadership laboratory.

312. Growth and Development of Aerospace Power. (3).

A continuation of Air Science 311.

411. Global Relations. (3).

A study of global relations of special concern to the Air Force officer, including geography, international relations, weather, navigation, and briefing for commissioned service.

(Cadets will meet the requirements for this course by enrolling in either Geography 422, Geopolitics, or Political Science 331, International Politics, both of which have been approved as part of the Air-Force-ROTC curriculum.)

412. Global Relations. (3).

A continuation of Air Science 411.

(Cadets will meet the requirements for this course by enrolling in Geography 422, Geopolitics, or Political Science 331, International Politics, both of which have been approved as part of the Air Force-ROTC curriculum.)

ANTHROPOLOGY

(See SOCIOLOGY AND ANTHROPOLOGY)

ART

PROFESSOR DANA DOANE JOHNSON, *Chairman*
Room 310, Jones Hall

PROFESSOR ALLGOOD

ASSOCIATE PROFESSOR GOVAN

ASSISTANT PROFESSORS, DAILEY, NAVE, and SORRELLE

MR. CHRISTENBERRY, MRS. GOVAN, MR. OWEN,
MRS. ROSS and MR. THOMAS

MR. BLALACK and MRS. POODRY

Requirements for the major and minor in art are listed on page 113; the program for the Bachelor of Fine Arts degree is outlined on page 109.

111. Art Appreciation. (3).

An introduction to the fundamental principles of the fine arts, aimed at providing an understanding of art products and processes as a basis for judgment and enjoyment of all types of art expression.

113. Basic Lettering. (3).

Fundamental letter construction, the history of alphabets, and the effects of tools and materials upon individual letter forms, with practical problems in hand lettering in both pen and brush techniques.

Two lecture, two laboratory hours per week.

115. Beginning Drawing. (3).

An introduction to the materials and techniques of basic drawing.

Two lecture, two laboratory hours per week.

- 116. Figure Structure. (3).**
Analysis of the structure of the human figure with emphasis on contour, gesture, and volume.
Two lecture, two laboratory hours per week.
- 121. Basic Design. (3).**
An introduction to design as a basic factor in creative expression.
Two lecture, two laboratory hours per week.
- 122. Color Fundamentals. (3).**
A modern approach to the study of color, its use and enjoyment.
Two lecture, two laboratory hours per week.
- 207. Lettering and Layout. (3).**
Practical problems involving lettering and layout.
Two lecture, two laboratory hours per week.
- 213. Drawing and Painting. (3).**
Theory and practice in drawing and painting in various media.
Two lecture, two laboratory hours per week.
- 214. Perspective. (3).**
Theory and practice of perspective projection and its various applications.
Two lecture, two laboratory hours per week.
- 215. Interior Design. (3).**
A survey of the field of interior design and some of its underlying principles.
Two lecture, two laboratory hours per week.
- 216. Textile Design. (3).**
An introduction to the field of fabric designing with emphasis on creative problems.
Two lecture, two laboratory hours per week.
- 231. Sculpture. (3).**
An introduction to the basic materials and techniques of sculpture.
Two lecture, two laboratory hours per week.
- 241. Graphics. (3).**
An introduction to the graphic arts, primarily concerned with the planning and execution of woodcuts.
Two lecture, two laboratory hours per week.
- 301. Art Education. (3).**
An introductory course in the development of skills and methods in the school art program, with emphasis on materials and ideas important to children's art expression and growth.
- 313. Art in America. (3).**
The development of American art including architecture, sculpture, painting, and the minor arts from pre-Columbian time to the present.
- 315. Advertising Design. (3).**
An introduction to the methods and techniques of advertising layout, with practical problems involving rough, presentation, and finished art work.
Two lecture, two laboratory hours per week.

- 316. Advertising Design. (3).**
A continuation of Art 315, offering further study in the technique of newspaper, magazine, and direct-mail layout.
Two lecture, two laboratory hours per week.
- 317. Interior Design. (3).**
Practical problems in interior architecture and design. PREREQUISITE: Art 215 or permission of instructor.
Two lecture, two laboratory hours per week.
- 318. Interior Design. (3).**
A continuation of Art 317, offering further study in interior organization and the designing of residential and commercial interiors.
PREREQUISITE: Art 215 and 317 or permission of instructor.
Two lecture, two laboratory hours per week.
- 323. Packaging and Display. (3).**
A study of package designing and display techniques.
Two lecture, two laboratory hours per week.
- 324. Packaging and Display. (3).**
A continuation of Art 323 with attention given to trademark designs, package renderings and practical displays.
Two lecture, two laboratory hours per week.
- 331. Casein. (3).**
Theory and practice in casein painting.
One lecture, four laboratory hours per week.
- 332. Casein. (3).**
A continuation of Art 331 with emphasis on further development of techniques.
One lecture, four laboratory hours per week.
- 333. Oil. (3).**
A preliminary course in the theory and practice of oil painting.
One lecture, four laboratory hours per week.
- 334. Oil. (3).**
A continuation of Art 333 with special attention given to the essentials of still-life, landscape, and portrait painting.
One lecture, four laboratory hours per week.
- 335. Graphics. (3).**
A continued study in the graphic arts with further emphasis on woodcut and etching. PREREQUISITES: Art 241, or permission of the instructor.
One lecture, four laboratory hours per week.
- 336. Graphics. (3).**
A continuation of Art 335 with emphasis turning to personal expression. PREREQUISITES: Art 241 and 335, or permission of the instructor.
One lecture, four laboratory hours per week.
- 337. Ancient Art. (3).**
A study of architecture, sculpture, painting, and the minor arts from prehistoric times to the fall of the Roman Empire, including Egyptian, Sumerian, Greek, and Roman art.

338. Medieval Art. (3).

A study of the development of the visual arts during the medieval period (early Christian, Romanesque, and Gothic), and their use by man as social, cultural, and educational forces.

339. Ceramics. (3).

An introductory course in pottery-making, including hand forming and production processes using clays, plaster, and cements.

Two lecture, two laboratory hours per week.

340. Ceramics. (3).

A continuation of Art 339, offering further study in pottery-making and glazing with emphasis on design.

Two lecture, two laboratory hours per week.

361. Arts and Crafts. (3).

Introductory arts and crafts, including leather and metal craft, weaving, and ceramics, as they relate to educational and recreational areas.

407. Study and Travel in Art (3 or 6).

Travel to important art centers of Europe and the Orient and specialized study under the direction of a faculty member of the Department of Art.

409. Oriental Art. (3).

A general survey of Oriental art from the earliest times to the present, dealing specifically with Persian, Indian, Chinese, and Japanese art.

411. Renaissance Art. (3).

Western art and architecture from the medieval period through the Renaissance and post-Renaissance periods.

412. Modern Art. (3).

A survey of nineteenth- and twentieth-century art, including all important movements in modern art from Neo-Classicism to the present.

415. Workshop in Art. (3).

The study of specific art problems as they apply to the individual student with emphasis on basic art concepts and creative experience. PREREQUISITE: permission of the instructor.

416. Workshop in Art. (3).

A continuation of Art 415, providing study of problems appropriate to the need of the individual student. PREREQUISITE: permission of the instructor.

421. Illustration. (3).

A survey of the many areas requiring the services of an illustrator and including the preparation of book, magazine, advertising, and television illustrations.

Two lecture, two laboratory hours per week.

422. Illustration. (3).

A continuation of Art 421, dealing with analysis of fine art techniques of drawing and painting as they apply to commercial illustration.

Two lecture, two laboratory hours per week.

423. Advertising Design. (3).

Advanced problems in the fields of advertising and merchandising

design. PREREQUISITES: Art 315 and 316 or permission of the instructor.

Two lecture, two laboratory hours per week.

424. Advertising Design. (3).

A continuation of Art 423 with special attention given to individual problems and personal approach. PREREQUISITES: Art 315, 316, and 423, or permission of the instructor.

Two lecture, two laboratory hours per week.

425. Interior Rendering. (3).

Professional techniques in the rendering of interiors and the construction of models.

Two lecture, two laboratory hours per week.

426. Interior Rendering. (3).

A continuation of Art 425 with further emphasis on rendering techniques.

Two lecture, two laboratory hours per week.

429. Interior Design. (3).

Advanced study in interior design. Problems in designing complete interiors for homes and commercial structures. PREREQUISITES: Art 215, 317, and 318 or permission of instructor.

Two lecture, two laboratory hours per week.

430. Interior Design. (3).

A continuation of Art 429 with further problems in home and commercial interiors. PREREQUISITES: Art 215, 317, 318, and 429 or permission of instructor.

Two lecture, two laboratory hours per week.

431. Drawing and Painting. (3).

An advanced course in drawing and painting methods with emphasis on transparent watercolor. PREREQUISITES: Art 213 or permission of instructor.

Two lecture, two laboratory hours per week.

432. Drawing and Painting. (3).

A continuation of Art 431 with attention given to various mixed media. PREREQUISITES: Art 213 and 431 or permission of instructor.

Two lecture, two laboratory hours per week.

433. Oil. (3).

A consideration of advanced problems in oil painting, presupposing that the student has mastered basic techniques and is ready for a more experimental approach to the subject. PREREQUISITES: Art 333 and 334, or the permission of the instructor.

One lecture, four laboratory hours per week.

434. Oil. (3).

A continuation of Art 433 with emphasis on the development of a personal style. PREREQUISITES: Art 333, 334, and 433, or permission of the instructor.

One lecture, four laboratory hours per week.

441. Graphics. (3).

Specialization in one or two graphic media. Students are encouraged to develop a personal imagery and the necessary technical abilities.

PREREQUISITES: Art 241, 335, and 336, or permission of the instructor.

One lecture, four laboratory hours per week.

442. Graphics. (3).

The culminating course in the graphic arts in which work may be done in woodcut, etching, or lithography. **PREREQUISITES:** Art 241, 335, 336 and 441, or permission of the instructor.

One lecture, four laboratory hours per week.

451. Primitive Art. (3).

A survey of prehistoric art, the art of the primitive Negro of Africa, the aboriginal peoples of Oceania, and the American Indian.

461. Art Seminar. (3).

Original research in the student's area of concentration, the extent of the project to be approved by the art faculty.

BIOLOGY

PROFESSOR CARL DEE BROWN, *Chairman*
Room 221, Manning Hall

PROFESSOR RUDOLPH

ASSOCIATE PROFESSORS FOLDEN, MCGOWAN, and PARCHMAN

ASSISTANT PROFESSORS BANCROFT, FEISAL, HOWELL, SIMONTON, SMITH,
and WELBOURNE

MR. CUNNINGHAM, MRS. ELEAZER, MR. MONTGOMERY, and MR. WARMBROD

MR. WILFORD

Requirements for the major and minor in biology are listed on page 113. Information concerning pre-professional curricula will be found on page 94 and 106. The program for the degree of Bachelor of Science in Medical Technology is outlined on page 112.

111. Introduction to Biology. (3).

An introductory survey of biology, with emphasis on the animal kingdom, designed for non-science majors. Credit in this course is not acceptable for the biology major or in related pre-professional curricula. Credit not allowed for both Biology 111 and 142.

Two lecture, two laboratory hours per week.

112. Introduction to Biology. (3).

A continuation of Biology 111, with emphasis on the plant kingdom. Credit in this course is not acceptable for the biology major or in the pre-professional curricula. Credit not allowed for both Biology 112 and 141. **PREREQUISITE:** Biology 111 or the equivalent.

Two lecture, two laboratory hours per week.

121. Anatomy and Physiology. (4).

A detailed study of the structure and functions of the human organism. This course is open only to student nurses and will not satisfy any part of the science requirement for the bachelor's degree.

Three lecture, two laboratory hours per week.

122. Anatomy and Physiology. (4).

A continuation of Biology 121. This course is open only to student nurses and will not satisfy any part of the science requirement for the bachelor's degree. **PREREQUISITE:** Biology 121 or the equivalent.

Three lecture, two laboratory hours per week.

130. Microbiology. (4).

A course designed to meet the requirements of student nurses and majors in the Department of Health and Physical Education.

Three lecture, two laboratory hours per week.

131. Human Anatomy and Physiology. (3).

A study of the structure and function of the human organism, designed primarily for majors in the Department of Health and Physical Education.

Two lecture, two laboratory hours per week.

132. Human Anatomy and Physiology. (3).

A continuation of Biology 131, designed primarily for majors in the Department of Health and Physical Education. **PREREQUISITE:** Biology 131 or the equivalent.

Two lecture, two laboratory hours per week.

133. Anatomy and Physiology of the Eye. (3).

A detailed study of the structure and function of the human eye and related areas of the nervous system. Open only to students preparing to instruct the visually handicapped. This course will not satisfy any part of the science requirement for the baccalaureate degree.

Two lecture, two laboratory hours per week.

141. General Plant Biology. (4).

A survey of the plant kingdom considering distribution, taxonomic relationships, morphology, physiology, and economic importance of selected forms.

Three lecture, two laboratory hours per week.

142. General Animal Biology. (5).

A survey of the animal kingdom considering distribution, taxonomic relationships, morphology, physiology, and economic importance of selected forms.

Three lecture, four laboratory hours per week.

225. Hydroponics. (2).

A study of the techniques used in growing higher plants in nutrient solutions. **PREREQUISITE:** Biology 141 and 142.

One lecture, two laboratory hours per week.

300. Genetics. (4).

A study of the principles of heredity, including laboratory experiments in *Drosophila* breeding. **PREREQUISITES:** Biology 141 and 142, or the equivalent.

Two lecture, four laboratory hours per week.

301. Heredity. (3).

The principles of heredity with applications to human problems, designed for non-science majors and recommended for students who

desire a better understanding of heredity and eugenics. Not acceptable as credit toward a biology major.

Three lecture-discussion hours per week.

302. General Bacteriology. (4).

A general course dealing with the fundamentals of bacteriology. PREREQUISITE: one year of biology or one year of chemistry.

Two lecture, four laboratory hours per week.

303. Nature Study and Bio-Conservation. (3).

Designed to stimulate an interest in living things in their environment and to encourage the use of field work in teaching nature study and conservation in the elementary school.

Two lecture, two laboratory or field hours per week.

304. Field Botany. (4).

Observation, classification, and mounting of representative specimens of flowering plants in the Memphis area. PREREQUISITE: Biology 141 or the equivalent.

Two lecture, four laboratory hours per week.

311. General Entomology. (4).

An introduction to the insects with emphasis on morphology, physiology, development, behavior, and ecology. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, four laboratory hours per week.

312. Systematic Entomology. (4).

Classification of the insects, the interpretation and use of keys, and the preparation of a representative collection. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, four laboratory hours per week.

314. Insect Morphology. (4).

A study of the form and structure of insects, considering both external and internal morphology. PREREQUISITE: Biology 141 and 142, or the equivalent.

Two lecture, four laboratory hours per week.

315. History of Biology. (3).

The development of the science of biology, considering the work of outstanding biologists and the influence of their contributions. PREREQUISITE: 8 semester hours in biology.

322. Microbial Genetics. (3).

A study of genetics of microorganisms; identification of hereditary determinants, methods of replication and transmission, and control over metabolism and development. PREREQUISITE: Biology 302, or the equivalent.

Two lecture, two laboratory hours per week.

330. The Relation of Microorganisms to Man. (3).

The nature and activities of the microorganisms as they affect the welfare of man; some time is devoted to the pathogens—etiology and transmission of diseases, immunity, and other factors bearing upon the health of the individual and the community. Designed for non-science majors.

331. Comparative Anatomy of Vertebrates. (5).

The origin, development, structure, and functions of the organs and

systems of selected forms of vertebrates. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, six laboratory hours per week.

332. Vertebrate Embryology. (4).

The development of selected vertebrate embryos from the fertilized egg cell. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, four laboratory hours per week.

340. Ornithology. (4).

A study of the habitats, migrations, nesting habits, and classification of birds. Field trips for recognition of the more common local birds will be organized as needed. PREREQUISITE: Biology 142, or the equivalent.

Two lecture, four laboratory hours per week.

341. Animal Physiology. (4).

A study of the essential functions of living organisms, considering necessary structural relationships and emphasizing the normal function of the human body. PREREQUISITES: Biology 142 (or the equivalent) and one year of chemistry.

Three lecture, two laboratory hours per week.

344. The Physiology of Exercise. (3).

The anatomy and physiology of muscular movement. PREREQUISITES: Biology 131 and 132 (or the equivalent).

Three lecture-demonstration hours per week.

352. General Ecology. (3).

The study of plant and animal communities in relation to their environment. PREREQUISITES: Biology 141 and 142, or the equivalent.

Two lecture, two laboratory and field hours per week.

361. Parasitology. (4).

Distribution, morphology, life history, economic importance, and control of some of the parasites of man and domestic animals; Protozoa through Platyhelminthes. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, four laboratory hours per week.

362. Medical Entomology. (4).

Distribution, morphology, life history, economic importance, and control of some of the insects and other arthropods which are parasites or serve as vectors for disease-producing organisms. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, four laboratory hours per week.

400. Problems in Biology. (2 to 4).

Individual problems pursued by qualified students under supervision of a member of the biology faculty, designed to develop interest and proficiency in biological research.

401. Plant Morphology. (4).

Comparative studies of general structure of lower plants, exclusive of bacteria and related forms, through the Bryophytes. PREREQUISITE: Biology 141 or the equivalent.

Two lecture, four laboratory hours per week.

402. Plant Morphology. (4).

A continuation of Biology 401, considering the vascular plants. **PREREQUISITE:** Biology 141 or the equivalent.

Two lecture, four laboratory hours per week.

403. Vertebrate Histology. (4).

Microscopic study of normal tissues and organs of the vertebrate body.

PREREQUISITE: Biology 331 or 341.

Two lecture, four laboratory hours per week.

404-A. Histological Technique. (3).

A study of the methods of preparing plant tissues for microscopic study; theories of staining and preparation of permanent mounts.

Credit not allowed for both 404-A and 404-B. **PREREQUISITE:** Biology 141, or consent of instructor.

One lecture, four laboratory hours per week.

404-B. Histological Technique. (3).

Methods of preparing animal tissues for microscopic study; theories of staining and preparation of permanent mounts. Credit not allowed for both 404-A and 404-B. **PREREQUISITE:** Biology 142 or consent of the instructor.

One lecture, four laboratory hours per week.

405. Sanitary Bacteriology. (4).

A study of microorganisms in relation to water and sewage; disinfection and disinfectants. **PREREQUISITE:** Biology 302 or the equivalent.

Two lecture, four laboratory hours per week.

406. Microbiology of Foods. (4).

Microorganisms in natural and processed foods; origins, nature, and effects on foods; enumeration; and the relation to health. **PREREQUISITE:** Biology 302, or the equivalent.

Two lecture, four laboratory hours per week.

410. Organic Development. (3).

The consideration of theoretical and scientific evidences concerning the origin, development, and establishment of the major groups of living and extinct animals and plants. Recommended for biology majors and general students as well. **PREREQUISITE:** one year of biology.

415. Bacterial Physiology. (4).

A survey of bacterial physiology, including growth, nutrition, biosynthesis, and adaptation. **PREREQUISITES:** Biology 302 (or the equivalent) and one year of chemistry.

Three lecture, two laboratory hours per week.

420. Plant Taxonomy. (4).

Principles of plant taxonomy, with special attention given to the classification of selected vascular plant families. **PREREQUISITE:** permission of the instructor.

Lectures, laboratory hours, and field trips.

425. Plant Physiology. (4).

Principles of physiology and their application to the living organism, with emphasis on higher plants. **PREREQUISITE:** permission of the instructor.

Two lecture, four laboratory hours per week.

426. Physiology of the Lower Plants. (4).

A study of the principles of physiology and their application to the lower plant groups, exclusive of the bacteria and related forms. PREREQUISITE: permission of the instructor.

Two lecture, four laboratory hours per week.

430. Invertebrate Zoology. (4).

The invertebrate animals, exclusive of the insects, with special attention given to phylogeny, organology, and taxonomy. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, four laboratory hours per week.

440. Field Zoology. (4).

Field study of the identification, life history, and habitat of the animals of this locality; birds and insects are omitted. PREREQUISITE: 8 semester hours of biology, including Biology 142 or the equivalent.

Two lecture, four laboratory hours per week.

442. Plant Pathology. (4).

A study of the bacteria, fungi, viruses, menatodes, parasitic seed plants, and environmental unbalance as the causal agencies of plant diseases. PREREQUISITES: 8 semester hours of biology, including Biology 141.

Two lecture, four laboratory hours per week.

450. Cellular Physiology. (4).

A study of the fundamental unit of all living things, considering the basic activities of cells: nutrition, adaptation, growth, and reproduction. PREREQUISITE: Biology 341 or the equivalent.

Two lecture, four laboratory hours per week.

460. Comparative Neurology. (4).

A detailed study of the nervous system of selected animals with emphasis on the vertebrates. PREREQUISITE: permission of the instructor.

Two lecture, four laboratory hours per week.

S-530. Modern Biological Methods. (2).

A consideration of recent development in biological techniques which may be applied to the study of living organisms.

S-560. Protozoology. (4).

A survey of the free living and parasitic protozoa, with consideration given to structure, taxonomy, habitat, and life history. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, four laboratory hours per week

GRADUATE COURSES IN BIOLOGY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For description of other courses and further details of the graduate program see the *Bulletin of The Graduate School.*)

G-401. Plant Morphology. (4).**G-402. Plant Morphology. (4).**

- G-403. Vertebrate Histology. (4).
- G-404-A. Histological Technique. (3).
- G-404-B. Histological Technique. (3).
- G-405. Sanitary Bacteriology. (4).
- G-406. Microbiology in Foods. (4).
- G-410. Organic Development. (3).
- G-415. Bacterial Physiology. (4).
- G-420. Plant Taxonomy. (4).
- G-425. Plant Physiology. (4).
- G-426. Physiology of the Lower Plants. (4.)
- G-430. Invertebrate Zoology. (4).
- G-440. Field Zoology. (4).
- G-442. Plant Pathology. (4).
- G-450. Cellular Physiology. (4).
- G-460. Comparative Neurology. (4).
- S-530. Modern Biological Methods. (2).
- S-560. Protozoology. (4).
- 502-I. Field Studies in Plant Biology. (3).
- 505. Determinative Bacteriology. (3).
- 510. Seminar in Biological Literature. (2).
- 512. Advanced Systematic Entomology. (3).
- 513. Seminar in Botany. (3).
- 514. Seminar in Zoology. (3).
- 515. Advanced Microbiology. (3).
- 550. Cytology. (3).
- 552. Advanced Plant Ecology. (3).
- 590. Research. (2 to 4).
- 591. Special Problems. (4).
- 596. Thesis. (6).

CHEMISTRY AND PHYSICS

PROFESSOR JESSE WELLS FOX, *Chairman*
Room 121, Manning Hall

PROFESSORS CLAYPOOL, HOLMES, IJAMS, and SCHIRMER

ASSOCIATE PROFESSORS ALLBRITTEN, HAYES, MARSHALL, and ROBINSON

ASSISTANT PROFESSORS ESTES, KARRAKER, NEMITZ, O'KELLY, SPELL,
TANNER, WATSON, and WOOLLETT

MRS. MARKS, and MR. SCHWAIGER

The Department of Chemistry and Physics offers majors and minors in chemistry, physics, and physical science; requirements are listed on page 114. Information concerning pre-professional curricula will be found on pages 94 and 106. The program for the degree of Bachelor of Science in Medical Technology is outlined on page 112.

CHEMISTRY

100s. Chemistry for Nurses. (4).

A study of the application of chemistry in health and disease, designed to meet the need of students who plan to enter the nursing profession. Approximately one-half of the semester is allocated to gen-

eral chemistry, one-fourth to organic chemistry, and one-fourth to biochemistry.

Three lecture, two laboratory hours per week.

110. Introduction to Chemistry. (2).

Designed for students who, by examination, do not qualify for standard chemistry courses. An introduction to the basic concepts required for further study in chemistry and physics, with stress on scientific calculations and the properties of matter. Corequisite: Mathematics 121, 122, or 141 is recommended. *Credit in this course will not apply toward a major in chemistry, physics, or physical science, nor will it satisfy any part of the science requirement for graduation.*

Two lecture hours per week.

111. General Chemistry. (4).

The basic course and a prerequisite for all higher-numbered courses in chemistry, covering atomic structure and its relationship to the physical and chemical properties of the elements, the states of matter, properties of gases and solutions, oxidation-reduction reactions, acid-base reactions, and chemistry of some of the more important non-metals. PREREQUISITE: Chemistry 110, or approval of the staff. PREREQUISITE OR COREQUISITE: Mathematics 121 or 141.

Three lecture, three laboratory hours per week.

112. General Chemistry. (4).

A continuation of Chemistry 111, covering the chemistry of the more important non-metals, chemical equilibrium and the Law of Mass Action, colloids, electrochemistry, and oxidation potentials. The laboratory is elementary qualitative analysis. PREREQUISITE: Chemistry 111.

Three lecture, three laboratory hours per week.

200. Elementary Quantitative Analysis for Biological Sciences. (4).

Designed for students in the biological sciences, with stress on the care and use of the analytical balance and the theory and practice of volumetric analysis and colorimetry. *Credit in this course will not apply toward a major in chemistry.* PREREQUISITE: Chemistry 112.

Three lecture, four laboratory hours per week.

201. Elementary Physical Chemistry. (4).

A brief course in physical chemistry, primarily for students in the medical and biological sciences as a preparation for organic chemistry and the physical concepts of biochemistry. *Credit in this course will not apply toward a major or minor in chemistry, physics, or physical science.* PREREQUISITES: Chemistry 200 or 220 and Mathematics 122 or 141.

Three lecture, three laboratory hours per week.

220. Quantitative Analysis. (4).

The theory and practice of gravimetric and titrimetric quantitative chemical analysis, with stress on principles and techniques of gravimetry, titrimetry, and stoichiometry. Laboratory work includes the use of the analytical balance, and preparation of standard solutions, and the analysis of samples. PREREQUISITES: Chemistry 112 and Mathematics 122 or 141.

Two lecture, six laboratory hours per week.

321. General Organic Chemistry. (4).

A systematic study of the preparations and reactions of aliphatic compounds and their interpretation by modern theories of organic chemistry. **PREREQUISITE:** Chemistry 112; Chemistry 201 or 220 is recommended.

Three lecture, four laboratory hours per week.

322. General Organic Chemistry. (4).

A continuation of Chemistry 321, with primary emphasis on the chemistry of carbohydrates and/or aromatic compounds. **PREREQUISITE:** Chemistry 321.

Three lecture, four laboratory hours per week.

341. Physical Chemistry. (Formerly Chemistry 411). (4).

The fundamental principles of physical chemistry, including kinetic theory, thermo-chemistry, the laws of thermodynamics, solutions, and phase equilibria. **PREREQUISITES:** Chemistry 200 or 220; Physics 212 or 252; Mathematics 212.

Three lecture, two laboratory hours per week.

342. Physical Chemistry. (Formerly Chemistry 412). (4).

A continuation of Chemistry 341, considering such topics as irreversible processes, electromotive force, ionic equilibria, quantum theory, molecular structure, crystals, and surface chemistry. **PREREQUISITE:** Chemistry 341.

Three lecture, two laboratory hours per week.

401. Biochemistry. (4).

An elementary course dealing principally with chemistry of carbohydrates, proteins, lipids, vitamins, etc., digestion and absorption, with consideration also given to certain physico-chemical topics including the colloidal state, colligative properties, equilibria and buffer mechanisms, and the electrolyte structure of body fluids. **PREREQUISITE:** Chemistry 322.

Two lecture, four laboratory hours per week.

402. Biochemistry. (4).

The topics include blood and other tissues, the excretions, energy metabolism, intermediary chemical metabolism. **PREREQUISITE:** Chemistry 401.

Two lecture, four laboratory hours per week.

405. Glass Manipulation. (2).

A laboratory course in the fundamentals of glass manipulation and the construction and repair of simple laboratory apparatus. **PREREQUISITE:** Senior standing.

Six laboratory hours per week.

420. Advanced Analytical Chemistry. (3).

An advanced treatment of the theory and calculations of gravimetric and titrimetric analysis. **PREREQUISITE:** Chemistry 342, or permission of the instructor.

Three lecture hours per week.

421. Advanced Inorganic Chemistry. (3).

An advanced presentation of the principles of inorganic chemistry, considering such topics as atomic structure, trends within the periodic table, acid-base theories, and the bonding, structure, and properties

of inorganic compounds. **PREREQUISITE:** Chemistry 342, or permission of the instructor.

Three lecture hours per week.

422. Instrumental Analysis. (4).

Applications of recent developments in the field of instrumental analysis. The theory and use of colorimetric, spectrophotometric and electrometric methods of chemical analysis, with experience in the use of the Beckman DU Spectrophotometer and other related colorimetric and spectrometric instruments. **PREREQUISITES:** Chemistry 342, or permission of the instructor; and Chemistry 420.

Two lecture, four laboratory hours per week.

431. Organic Qualitative Analysis. (3).

Characterization of known and identification of unknown, pure organic compounds by solubility tests, class reactions, specific test reagents, and the preparation of derivatives. **PREREQUISITES:** Chemistry 220 and Chemistry 322.

One lecture, six laboratory hours per week.

490. Chemical Literature. (1).

Use of the chemical literature and the writing of technical reports. **PREREQUISITE:** junior standing in chemistry.

One lecture hour per week.

491. Seminar. (1).

Special projects, reports and investigation of current chemical literature. **PREREQUISITE:** Chemistry 490.

One lecture hour per week.

S501-I. Principles of Chemistry. (3).

This course is intended to acquaint the teacher of high school chemistry with a modern approach to the principles of chemistry, including atomic structure, chemical bonding, the periodic classification of the elements as it relates to their properties, chemical equilibrium and the law of mass action, ionic equilibria, electrochemistry, oxidation potentials, and an introduction to nuclear chemistry. Problems illustrating the quantitative relationships involved in most of these topics are emphasized. The laboratory will include both qualitative and quantitative analytical techniques. The Chemical Bond Approach materials will be used as a basis for this course. *This course cannot be applied toward a major or minor in chemistry, physics, or physical science.*

Three lecture hours per week.

S502-I. Principles of Organic Chemistry. (3).

Open only to high school science teachers, this course is the systematic presentation of the fundamental principles of organic chemistry with interpretation of structure and properties in accord with modern atomic and molecular theory. Emphasis is placed upon the sources and uses of organic compounds in our daily lives. Special topics will be developed that will familiarize the high school teacher with the recent advances in the field and areas suitable for special projects for high school students. Laboratory experiments and demonstrations will be developed and performed which may be adapted for use in high school courses. *This course cannot be applied toward a major or minor in chem-*

istry, physics, or physical science. PREREQUISITE: Two years of college chemistry or Chemistry S501-I.

Three lecture hours per week.

S503-I. Analytical Chemistry. (3).

This course stresses recent analytical methods. It covers the fundamental principles of analytical chemistry including some gravimetric and titrimetric methods but with major emphasis on modern instrumental techniques. These include ultraviolet, visible and infrared spectrophotometry, potentiometric, conductometric, voltametric, and electrolytic methods; and both liquid and gas phase chromatography. *This course cannot be applied toward a major or minor in chemistry, physics, or physical science.* PREREQUISITE: Two years of college chemistry or Chemistry S501-I.

Three lecture hours per week.

S541. Advanced Physical Chemistry. (3).

Thermodynamics in relation to chemical equilibria and reactivity, including such topics as isothermal and adiabatic expansions, cyclic processes, heat content, specific heats, entropy, enthalpy, free energy, and vapor pressures. PREREQUISITES: Chemistry 412, Mathematics 312, and permission of department chairman.

PHYSICS

111. Foundations of Physics. (3).

A thorough study of certain basic principles of science, with particular stress on the nature of physics, designed for the student who has had no previous training in physics. *Credit in this course will not apply toward a major or a minor in physics, chemistry, or physical science, nor will it satisfy any part of the science requirement in the pre-professional curricula.*

Two lecture, two laboratory hours per week.

112. Foundations of Physics. (3).

A continuation of Physics 111. PREREQUISITE: Physics 111. *Credit in this course will not apply to a major or a minor in physics, chemistry, or physical science, nor will it satisfy any part of the science requirement in the pre-professional curricula.*

Two lecture, two laboratory hours per week.

211. General Physics. (4).

The general physics course, covering the topics of mechanics, heat, and sound; required of all pre-medical, pre-dental, and pre-pharmacy students. PREREQUISITE: Mathematics 141.

Three lecture, two laboratory hours per week.

212. General Physics. (4).

A continuation of Physics 211, covering the topics of magnetism, electricity, light, and modern physics. PREREQUISITE: Physics 211.

Three lecture, two laboratory hours per week.

251. Physics for Science and Engineering. (5).

Designed primarily for students intending to major in physics, chemistry, or mathematics; required of all students in the pre-engineering curriculum and recommended for students planning to teach physics

in the secondary schools. PREREQUISITES or COREQUISITES: Chemistry 111 and Mathematics 211.

Four lecture, two laboratory hours per week.

252. Physics for Science and Engineering. (5).

A continuation of Physics 251. PREREQUISITE: Physics 251. PREREQUISITES or COREQUISITES: Chemistry 112 and Mathematics 212.

Four lecture, two laboratory hours per week.

270. Acoustics of Musical Sounds. (3).

Designed primarily for majors in music. *Credit in this course will not apply toward a major or minor in chemistry, physics, or physical science, nor will it satisfy any part of the science requirement in the pre-professional curricula.* PREREQUISITE: Mathematics 101 or 141.

Three lecture hours per week.

311. Mechanics. (3).

An advanced course in classical mechanics covering statics and dynamics of particles, rigid bodies, fluid flow, work, energy, momentum, force fields, and harmonic motion. Recommended as good preparation for advanced physics courses. PREREQUISITE: Physics 212 or 252. COREQUISITE: Mathematics 312.

Three lecture hours per week.

312. Mechanics. (3).

A continuation of Physics 311. PREREQUISITE: Physics 311.

Three lecture hours per week.

321. Electricity and Magnetism. (4).

An advanced course in electricity and magnetism covering such topics as magnetostatics, electrostatics, d.c. and a.c. circuits, electromotive force, thermal effect, electronic theory, and field theory. PREREQUISITE: Physics 212 or 252. COREQUISITE: Mathematics 312.

Three lecture, three laboratory hours per week.

322. Electricity and Magnetism. (4).

A continuation of Physics 321. PREREQUISITE: Physics 321.

Three lecture, three laboratory hours per week.

351. Electronics. (4).

Theory and applications of electronic devices such as vacuum and gas-filled tubes, photoelectric cells, and semiconductors, with particular emphasis on basic electronic circuitry and laboratory instrumentation. PREREQUISITES: Physics 212 or 252, and Physics 321.

Three lecture, three laboratory hours per week.

405. Astronomy. (3).

A survey course considering practical astronomy, the principal constellations, the solar system, the structure of the galaxy, theories of stellar evolution. PREREQUISITE: Mathematics 141.

Three lectures per week, and occasional observation periods.

411. Atomic and Nuclear Physics. (4).

A study of atomic structure and behavior, the interaction of atomic particles, nuclear structure, and subatomic particles, radiation and its properties and origin, with some consideration of applications of recent

developments in physics. PREREQUISITES: Physics 212 or 252; Mathematics 312.

Three lecture, three laboratory hours per week.

412. Atomic and Nuclear Physics. (4).

A continuation of Physics 411. PREREQUISITE: Physics 411.

Three lecture, three laboratory hours per week.

421. Optics. (4).

Geometrical and physical optics including such topics as thin lenses, spherical mirrors, lens aberrations, optical instruments, waves, interference, diffraction, absorption, transmission, and scattering. PREREQUISITES: Physics 212 or Physics 252; Mathematics 312.

Three lecture, three laboratory hours per week.

422. Optics. (4).

A continuation of Physics 421. PREREQUISITE: Physics 421.

Three lecture, three laboratory hours per week.

431. Radioisotope Technology. (3).

Properties and detection of radiation, production of isotopes, use of detection devices, radiation chemistry, thickness and density gauging, activation analysis, moisture measurement, safety procedures, analytical tracer techniques, industrial radiography, procurement of radioisotopes and radioisotope licenses, and design of radiochemical laboratories. PREREQUISITE: college course in physics, chemistry, and mathematics.

Two lecture, two laboratory hours per week.

451. Thermodynamics. (3).

A mathematical treatment of thermodynamics, including such topics as work, energy, enthalpy, entropy, reversible and irreversible processes, equilibria, specific heats, and phase transitions. PREREQUISITES: Physics 212 or 252; Mathematics 312.

Three lecture hours per week.

S501-I. Physics for High School Teachers. (3).

The materials developed by the Physical Science Study Committee for the first semester of high school physics, with additional instruction and experiments as related to this study, will be presented. A general introduction to the fundamental physical concepts of time, space, matter, optics, and waves will be presented. A discussion of the PSSC text, the PSSC laboratory, together with films and other materials will be included. *This course cannot be applied toward the major or minor in chemistry, physics, or physical science.*

Three lecture hours per week.

S502-I. Physics for High School Teachers. (3).

This course will be a continuation of Physics S501-I and will include the materials developed by the Physical Science Study Committee for the second semester of high school physics, with supplemental experiments, classroom discussions and assignments. Mechanics, from a dynamical point of view, the laws of conservation of momentum and of energy, fundamental concepts of electricity and magnetism, and atomic structure will be em-

phasized. *This course cannot be applied toward a major or minor in chemistry, physics, or physical science.*

Three lecture hours per week.

S503-I. Selected Topics in Modern Physics for High School Teachers (3).

Some of the more advanced topics of atomic and nuclear physics, together with the basic concepts of solid state physics, electronics, and space technology will be presented. Laboratory experience with some of the more advanced electronic and nuclear equipment will be provided. *This course cannot be applied toward a major or minor in chemistry, physics, or physical science.*

Three lecture hours per week.

GRADUATE COURSES IN CHEMISTRY AND PHYSICS

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses and further details of the graduate program see the Bulletin of The Graduate School.)

CHEMISTRY COURSES

- G-401. Biochemistry. (4).
- G-402. Biochemistry. (4).
- G-405. Glass Manipulation. (2).
- G-420. Advanced Analytical Chemistry. (3).
- G-422. Instrumental Analysis. (4).
- G-431. Organic Qualitative Analysis. (3).
- 501-I Principles of Chemistry. (3).
- 502-I Principles of Organic Chemistry. (3).
- 503-I Analytical Chemistry. (3).
- 511. Advanced Inorganic Chemistry. (3)
- 512. Advanced Inorganic Chemistry. (3)
- 521. Principles of Analytical Chemistry. (3).
- 531. Intermediate Organic Chemistry. (3)
- 533. Organic Preparations. (3).
- 536. Chemistry of Natural Products. (3).
- 541. Advanced Physical Chemistry. (3).
- 596. Thesis. (6).

PHYSICS COURSES

- G-411. Atomic and Nuclear Physics. (4).
- G-412. Atomic and Nuclear Physics. (4).
- G-421. Optics. (4)
- G-422. Optics. (4).
- G-431. Radioisotope Technology. (3).
- G-451. Thermodynamics. (3).
- 501-I General Physics for High School Teachers. (3).
- 502-I Fundamental Concepts of Contemporary Physics for High School Teachers. (3).
- 503-I Selected Topics in Modern Physics for High School Teachers. (3).

CLASSICAL LANGUAGES

PROFESSOR ROY E. WATKINS, *Chairman*
Room 215, Jones Hall

Requirements for the major and minor in Latin are listed on page 115. Details of the foreign language requirements for the baccalaureate degrees will be found on page 105.

CLASSICS

323. Latin and Greek Etymology. (3).

Origin and derivation of words, especially those used in medicine and science. This course is given in English and is open to all students without prerequisite. It may not be used to satisfy any part of the foreign language requirement nor does it apply toward a major in classical languages.

GREEK

111. Elementary Greek. (3).

Elements of Greek grammar and syntax; practice in reading and translation.

112. Elementary Greek. (3).

Completion of basic grammar and syntax, with additional readings.

211. Xenophon. (3).

Reading and interpretation of Xenophon's *Anabasis*.

212. Homer. (3).

Reading and interpretation of Book IX of Homer's *Odyssey*.

311. Herodotus. (3).

Reading and analysis of Books VI-VIII of Herodotus' *History*.

321. Euripides. (3).

Reading and analysis of the dramas *Alcestis* and *Medea*.

LATIN

111. Elementary Latin. (3).

Elements of grammar; practice in Latin composition and translation.

112. Elementary Latin. (3).

Completion of elementary Latin grammar, with additional readings.

211. Caesar. (3).

Reading and analysis of Caesar's *Galic Wars*, Books I, IV, V.

212. Cicero. (3).

Reading and analysis of selected orations of Cicero.

311. Livy. (3).

Reading and analysis of Livy's *History*, Books XXI, XXII.

312. Horace's *Satires*. (3).

321. **Lucretius. (3).**
Reading and analysis of Roman philosophy in Lucretius' *De Rerum Natura*, Books I and III.
351. **Ovid. (3).**
Reading and analysis of myths in Ovid's *Metamorphoses*.
352. **Vergil. (3).**
Reading and analysis of the *Aeneid*.
361. **Cicero. (3).**
Reading and analysis of *De Amicitia* and *De Senectute*.
362. **Pliny, Martial. (3).**
Reading and analysis of the *Letters* of Pliny and the *Epigrams* of Martial.
411. **Catullus, Horace. (3).**
Reading and analysis of Catullus' *Lyric Poems* and Horace's *Odes*.
413. **Roman Letter Writers. (3).**
Reading and analysis of Cicero's *Letters*.
421. **Roman Satire. (3).**
Reading and analysis of Juvenal's *Satires*.

CURRICULUM AND INSTRUCTION

PROFESSOR HEBER ELIOT RUMBLE, *Chairman*
Room 104, *Education Building*

PROFESSORS BROWNLEE, JOHNSON, RICHARDSON, and UNDERWOOD
ASSOCIATE PROFESSORS COBB, KRAUSE, NOTHERN, SHUBKAGLE, and SMITH
ASSISTANT PROFESSORS DOWD, MOORE, POWELL, STEPHENSON, SWEAT,
THOMPSON, and TORBET

MRS. ALGEE, MRS. HENRY, MRS. RICHARDSON, and MRS. SANDS
MR. COUNCE, MRS. DETHERIDGE, MR. GRIESBECK, MR. OAKS, MR. PERRY,
MR. RUDMAN, MRS. SEVEDGE, MR. STIMBERT, MR. WOODY,
and MRS. WOOLNER

The Department of Curriculum and Instruction offers majors in elementary education and secondary education and minors in elementary education, library service, secondary education, and special education; the requirements are listed on page 139.

The department offers courses in three areas: education, library service, and special education.

EDUCATION

102. **Human Growth and Development. (3).**
An attempt to help the student understand child nature and development, to appreciate the fact that all behavior is caused, and to form the habit of seeking bases for both normal and abnormal behavior in situations at home, at school, and in the community.

201. **The Psychology of Learning. (3).**
The psychology of learning as applied to activities under the guidance of the school.
203. **Foundations of Educational Thought and Practice. (3).**
An overview of the whole field of education, with emphasis on those things a prospective teacher should know at the beginning of his professional preparation.
325. **Observation, Participation, and Practice in the Elementary School. (3).**
A preparatory course for directed student teaching in the elementary school.
335. **Driver Education and Traffic Safety. (Same as Industrial Arts 335). (3).**
Study and practice in the preparation of instructional materials dealing with traffic and safety; care and upkeep of the automobile, and behind-the-wheel instruction. Open only to students whose major or minor is in the Department of Curriculum and Instruction.
Two lecture, two laboratory hours per week.
351. **Special Problems in Instruction. (1 to 3).**
Individual investigation in the area of instruction. PREREQUISITE: experience as a teacher or satisfactory evidence of being qualified to benefit from such a course.
381. **Teaching Methods in High School Subjects. (3).**
Emphasis is placed on ways in which learning experiences may be organized to insure effective pupil learning. PREREQUISITES: Education 102, 201, 203.
382. **Survey of Preschool Education. (3).**
Philosophy and theories of preschool education; physical, emotional, social, and mental development of preschool children; keeping of records; working with parents; selecting equipment and supplies; curriculum content; planning a course of study. PREREQUISITE: Education 102, 201, 203.
383. **Materials and Methods, Kindergarten through Third Grade. (3).**
A study of materials and instructional techniques uniquely necessary in working with children in kindergarten through third grade.
385. **The Teaching of Reading and the Other Language Arts in the Elementary School. (3).**
A basic course in reading, involving techniques and materials for the teaching of reading and the other communication skills. PREREQUISITES: Education 102, 201, and 203.
386. **Teaching Methods in Elementary School Science and Mathematics. (3).**
A study of the natural environment as a child would view it; activities which challenge a child; the mathematical processes required of the elementary school child; reasons for the use of certain methods. PREREQUISITES: Education 102, 201, 203, and enrollment in Education 387.
387. **Teaching Methods in Elementary School Social Studies. (3).**
A basic course involving methods and materials appropriate to each

developmental level of the elementary school child. **PREREQUISITES:** Education 102, 201, 203, and enrollment in Education 386.

391. Materials and Methods in High School———. (3).

Objectives, content, and grade placement of secondary school subjects; tools of instruction; organization of courses; teaching procedures and practice. **PREREQUISITES:** Education 381 and satisfactory preparation in the subject matter field.

NOTE: Students registering for Education 391 () will suffix one of the letters below to the course number to indicate the subject matter area for which credit is to be given; students may register for Education 391 () more than once, but may not repeat the same subject matter area for credit.

A. Art	I. Latin
B. Biology	J. Mathematics
C-a. Vocational business subjects	K. Music
C-b. General Business subjects	L. Physical Education
D. English	M. Physical Science
E. French	N. Social Science
F. German	O. Spanish
G. Home Economics	P. Speech
H. Industrial Arts	Q. Health

391-W Materials and Methods in High School———. (1 or 4).

A student who is unable to schedule a methods course in the subject matter field in which he seeks endorsement may register for Education 391-W provided he can arrange for a one-hour conference per week with the chairman of the department preparing him to meet requirements in his endorsement area. A student enrolling for four semester hours credit in Education 391-W may not receive credit for Education 381.

401. Seminar in World Literacy. (3).

A survey of world literacy programs in the twentieth century, emphasizing techniques used; the development of the Laubach method, with demonstrations and practice in teaching it; the significance of graded literature and the techniques of writing for the new adult reader; tests for readability; the preparation of primers; campaign administration and promotion; and an introduction to linguistics. *This is a concentrated course, offered at announced intervals and to be completed in two weeks.*

411. School and Community Relationships. (3)

The relationship of the school to community agencies concerned with health and safety, government, religion, occupations, extension services, children's organizations, adult education, cultural activities, cooperative movements, etc.; relationship of the community to such school activities as attendance, athletics, lunch, libraries, extra-curricular programs, home study, records and reports, guidance, etc.

***415. Directed Student Teaching in the Secondary School. (3 to 9).**

Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.

- *416. Directed Student Teaching in the Secondary School. (3 to 6).**
For the student who has completed six semester hours or less of student teaching on the secondary level and desires some additional experience.
- *423. Directed Student Teaching in the Kindergarten. (3 to 6).**
Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.
- *425. Directed Student Teaching in the Elementary School. (3 to 9)**
Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.
- *426. Directed Student Teaching in the Elementary School. (3 to 6).**
For the student who has completed 6 semester hours or less of student teaching in the elementary school and desires some additional experience.
- 429. Workshop for Teachers in the Elementary School. (3 to 6).**
A course designed to meet the needs of in-service teachers by offering an opportunity to work cooperatively on problems which are real to teaching situations and which meet the needs of the individual. **PRE-REQUISITE:** teaching experience and permission of the director of the workshop.
- 431. Workshop in the Improvement of Instruction. (3).**
This course is designed to assist both in-service and prospective teachers to improve the instruction-learning program; attention is given to the purposes of education, classroom learning, motivation of learning, utilization of materials, evaluation of teaching and learning, etc., and to the application of these elements in the several instructional areas of the elementary school and in the particular subject areas of the secondary school.
- 432. Workshop in the Administration of Guidance Services. (3).**
This course is designed to assist in-service and prospective teachers and administrators in providing more effective guidance services in grades 1 through 12; particular attention will be given to the planning, organizing, and evaluating of such services as inventory, information, counseling, placement, and follow-up.
- 435. Aerospace Education in Schools. (3).**
The purpose of this course is to provide teachers with aerospace knowledge and experiences and ways of utilizing this knowledge and experience in the classroom.
- 442. The Teaching of Natural Science in the Elementary School. (3).**
An advanced course in the study of the natural environment as a child would view it, including a survey of suitable equipment and materials for the elementary classroom and limited experience at carrying on experiments at the child's level.

*For detailed information concerning the requirements for admission to the student teaching program, see page 139.

443. The Teaching of Modern Mathematics in the Elementary School (Grades 1-8) (3).

An advanced course acquainting prospective and experienced teachers with the mathematical processes required of the elementary school child and the reasons why certain methods are used.

444. The Teaching of the Social Studies in the Elementary School. (3).

An analysis of social problems, needs, and interests which are basic to the curriculum of the elementary school child, with emphasis on the role of the social studies and their relationship to the total school program.

445. The Teaching of Children's Literature in the Elementary School. (3).

A course designed to improve the methods of teaching children's literature in the elementary school, including units on story telling, dramatization, choral speech work, and the correlation of literature with the content subjects.

446. Improving the Teaching of Reading. (3).

Survey of reading methods and research for the person who has had experience in the classroom.

447. Techniques of Functional Literacy. (3).

A course designed to serve teachers and prospective teachers of adult illiterates, presenting an overview of the field of functional literacy including an understanding of the sociological and psychological implications of illiteracy; a study of literacy methods; the preparation of materials for the new adult reader; and the promotion of literacy in the United States and overseas.

448. Workshop in the Reading Program. (3 to 6).

Through the media of group study, discussion, demonstrations, directed observation, and laboratory work, participants will formulate plans for reading programs, including content, methods and techniques, materials, and evaluative criteria.

451. History of Education. (3).

This course traces through European history some of the more important educational problems of modern times as they have been affected by the social and political facts of history, by the contributions of some of the leading education theorists, and by institutional practices.

452. History of Education in the United States. (3).

This course aims to trace, describe, and evaluate the development and growth of educational practices, institutions, and theories in the United States from the colonial period to the present.

453. Philosophy of Education. (3).

A guide to the philosophical treatment of educational problems, designed to develop in the student some facility in critical and systematic thinking.

456. Educational Sociology. (3).

Group behavior in the educational process; sociological factors involved in the interaction of pupils, teachers, administrators, and community.

461. Curriculum Problems and Trends in the Secondary School. (3).

This course is designed to afford some help in the clarification of sec-

ondary school educational purposes and in determination of appropriate learning activities; it deals with the functional teaching objectives, ways of obtaining these objectives, methods of establishing relationships among the school subjects, developing the core curriculum, and the organization and use of units of work.

- 462. Curriculum Problems and Trends in the Elementary School. (3).**
This course deals with general educational objectives and means of achieving them; the roles of the various school subjects and their interrelationship; and the organization and use of units of work in the core curriculum.
- 466. Audio-Visual Aids to Teaching. (3).**
Effectiveness and utilization of audio-visual materials in the school program; technical and administrative problems of integrating audio-visuals into the school curriculum. Opportunities will be provided to develop skills in the use of materials and equipment.
- 471. Procedures, Administration, and Organization of Guidance Services in Schools. (3).**
Historical background and growth of the guidance movement; sociological, psychological, and educational foundations; functions, scope, organization and administration of guidance services; duties and responsibilities of administrators, teachers, and specialists in guidance programs.
- 472. The Psychology of Adolescence. (3).**
A study of the characteristics of adolescence that should be taken into account in the planning and teaching of secondary school courses, in the supervision of extra-class activities, and in guiding and counseling.
- 476. Mental Hygiene and the School. (3).**
Guidance in the teacher's own personality development and a study of the mental hygiene of the child as affected by his past and present environment.
- 478. Supervised Clinical Training in Educational Therapy. (6).**
Practical application of educational activities in the rehabilitation of patients with neuropsychiatric, orthopedic, neurological cardiac, pulmonary, and other general disabilities; included are such procedures as Braille, speech therapy, general educational development, literacy training, and other vocational subjects.
- 479. Supervised Practicum in School Guidance and Counseling. (3).**
Supervised application of the principles and methods of guidance derived from professional preparation: standardized tests, records and personal data, educational and occupational information, personal and group counseling, and interview techniques; a minimum of 135 clock hours is required. **PREREQUISITE:** permission of the instructor.
- 486. Elementary School Administration. (3).**
A study of the major aims of the elementary school; planning the daily program through integration and related subjects; learning to keep and interpret various types of records and reports; the importance of proper teacher-pupil, teacher-teacher, teacher-administrator, and teacher-parent relationships; special emphasis on the P-TA program in Tennessee.

- 491. Materials and Methods of Teaching High School —. (3).**
An advanced course in a specified endorsement area, partly taught by means of televised instruction.
- 492. Materials and Methods of Teaching High School —. (3).**
A workshop in teaching methods in a specified endorsement area.
- (The following are graduate courses for which undergraduates within 36 semester hours of graduation may enroll.)
- S-541. Diagnostic and Remedial Reading in Elementary and Secondary Schools. (3).**
An analysis of why certain children fail to read adequately; the development of a program to correct reading deficiencies. **PRE-REQUISITES:** Education 385, or 446, and concurrent teaching or a minimum of one year's classroom experience.
- S-553. Educational Tests and Measurements. (3).**
The principles underlying the construction of objective tests and the problems relating to the use and interpretation of school measurements by teachers and administrators; practice in the construction of new-type and essay tests, and in the elements of statistical procedure necessary for the interpretation of school measurements.
- S-565. The Modern Junior High School. (3).**
Origin and functions of the junior-high school; prevailing practices in its educational program; suggested improved programs and procedures.
- S-566. The Pupil Activity Program. (3).**
A study of current philosophy and practice in regard to responsibilities of teachers, supervisors, and administrators for those phases of educational practice which are essential for the educational program but are not considered as part of general classroom procedure.
- S-584. High School Administration. (3).**
Modern practices in organizing and administering secondary schools; types of high schools; selection and assignment of staff; program of studies; records; management of buildings and grounds; pupil personnel; guidance; selection, retention, and improvement of teachers; and interpreting the school to the public.

GRADUATE COURSES IN EDUCATION

(Numbers prefixed with "G" identify courses described in the preceding section and in the section on special education for which graduate credit may be given. For further details of the graduate program, see the Bulletin of The Graduate School.)

- G-401. Seminar in World Literacy. (3).**
- G-415. Directed Student Teaching in the Secondary School. (3 to 9).**
- G-416. Directed Student Teaching in the Secondary School. (3 to 6).**
- G-423. Directed Student Teaching in the Kindergarten. (3 to 6).**
- G-425. Directed Student Teaching in the Elementary School. (3 to 9).**
- G-426. Directed Student Teaching in the Elementary School. (3 to 6).**

- G-427. Student Teaching with the Educable Mentally Retarded. (3).
- G-428. Student Teaching with Pupils who have Crippling and Special Health Conditions. (3).
- G-429. Workshop for Teachers in the Elementary School. (6).
- G-431. Workshop in the Improvement of Instruction. (3).
- G-432. Workshop in the Administration of Guidance Services. (3).
- G-439. Workshop for Teaching Perceptually Handicapped Children. (3).
- G-442. The Teaching of Natural Science in the Elementary School. (3).
- G-443. The Teaching of Modern Mathematics in the Elementary School (Grades 1-8). (3).
- G-444. The Teaching of Social Studies in the Elementary School. (3).
- G-445. The Teaching of Children's Literature in the Elementary School. (3).
- G-446. Improving the Teaching of Reading. (3).
- G-447. Techniques of Functional Literacy. (3).
- G-448. Workshop in the Reading Program. (3 to 6).
- G-451. History of Education. (3).
- G-452. History of Education in the United States. (3).
- G-453. Philosophy of Education. (3).
- G-461. Curriculum Problems and Trends in the Secondary School. (3).
- G-462. Curriculum Problems and Trends in the Elementary School. (3).
- G-466. Audio-Visual Aids to Teaching. (3).
- G-471. Procedures, Administration, and Organization of Guidance Services in Schools. (3).
- G-472. The Psychology of Adolescence. (3).
- G-476. Mental Hygiene and the School. (3).
- G-478. Supervised Clinical Training in Educational Therapy. (3).
- G-479. Supervised Practicum in School Guidance and Counseling. (3).
- G-480. Education of Exceptional Children. (3).
- G-481. Education of the Mentally Retarded Child. (3).
- G-482. Education of the Brain-Injured and Cerebral Palsied Child. (3).
- G-483. Education of Hospitalized and Homebound Children. (3).
- G-484. Educational and Medical Aspects of Crippling and Special Health Conditions. (3).
- G-485. Social Case Work in Education. (3).
 - 501. Educational Thought. (3).
 - 504. Social Foundations of Education. (3).
 - 506. Comparative Education. (3).
 - 521. Educational Psychology. (3).
 - 526. Techniques of Counseling. (3).
 - 527. Diagnostic Techniques in Guidance. (3).
 - 528. Educational and Occupational Information. (3).
 - 529. The Group Process as Applied to Guidance. (3).
 - 536. Educational Statistics and Research Methodology. (3).

- 541. **Diagnostic and Remedial Reading in Elementary and Secondary Schools.**
- 553. **Educational Tests and Measurements. (3).**
- 557. **Modern Methods in Elementary Education. (3).**
- 558. **Modern Methods in Secondary Education. (3).**
- 561. **Fundamentals of Curriculum Development. (3).**
- 562. **Research in Curriculum and Instructional Problems. (3).**
- 565. **The Modern Junior High School. (3).**
- 566. **The Pupil Activity Program. (3).**
- 591. **Special Problems. (1 to 3).**
- 593-6. **Thesis. (3 or 6).**

LIBRARY SERVICE

- 321. **Books and Related Library Materials for Children. (3).**
Primarily a reading course based on materials suitable for elementary school children: leisure-time interests and curricular needs; criteria for evaluating books and related materials such as magazines, phonograph records, radio programs, and films; aids used in their selection; types of literary and informational books, authors, illustrators, and publishers; story-telling and other devices for encouraging reading.
- 322. **Books and Related Library Materials for Young People and Adults. (3).**
This course is presented in the same manner as Library Service 321, but is adapted to materials on the junior and senior high school levels; attention is also given to adult books to enable librarians to work more effectively with faculty and community groups.
- 323. **Reference Materials. (3).**
A study of reference materials useful in various areas of the elementary and secondary school curriculum; basic reference materials in every general field are studied, thus making the course desirable for teachers as well as librarians; practice in handling reference questions.
- 411. **Organization of Materials. (3).**
Instruction and practice in simplified procedures for acquisition, preparation, organization, and circulation of books and related library materials.
- 412. **Cataloging and Classification. (3).**
An introduction to the principles of classification of books; simplified techniques of cataloging books and other materials by the abridged Dewey decimal system; the use of printed cards.
- 421. **School Library Administration. (3).**
The place of the library in the instructional and guidance program of the school and the philosophy and purposes of libraries and librarianship, including such problems as standards and evaluation, public relations and publicity, support, housing and equipment, training of assistants, and library-study hall relationships; field trips to different types of libraries.

GRADUATE COURSES IN LIBRARY SERVICE

(Graduate credit may be given for the following courses, described in the preceding section. For full details of the graduate program, see the Bulletin of The Graduate School.)

- G-411. Organization of Materials. (3).**
- G-412. Cataloging and Classification. (3).**
- G-421. School Library Administration. (3).**

SPECIAL EDUCATION

- 427. Student Teaching with the Educable Mentally Retarded. (3).**
Orientation, observation, and teaching with mentally retarded pupils. **PREREQUISITE:** Education 415 or 425.
- 428. Student Teaching with Pupils who have Crippling and Special Health Conditions. (3).**
Orientation, observation, and teaching with pupils who have crippling and special health conditions. **PREREQUISITE:** Education 415 or 425.
- 439. Workshop for Teaching Perceptually Handicapped Children. (3).**
A workshop for teacher-training in the area of perceptually handicapped children, (brain-injured, non-retarded), who demonstrate a learning and/or behavioral disorder due to a minor or moderate neurological impairment.
- 480. Education of Exceptional Children. (3).**
A survey course which deals with the general problems involved in the education of exceptional children.
- 481. Education of the Mentally Retarded Child. (3).**
Designed to aid students in understanding the mentally retarded child; basic educational techniques and methods applicable to mentally retarded children.
- 482. Education of the Brain-Injured and Cerebral Palsied Child. (3).**
A study of the neurological mechanisms; the types of aphasia and their educational implications and adjustments; the types of cerebral palsy and their educational implications and remedies by use of special methods and materials; other physiological impairments (such as encephalitis) frequently encountered by teachers of special education; an investigation of the most satisfactory educational approaches to the rectification of these conditions.
- 483. Education of Hospitalized and Homebound Children. (3).**
Orientation to the general and specific problems of the hospitalized and homebound child.
- 484. Educational and Medical Aspects of Crippling and Special Health Conditions. (3).**
A detailed study of the various types of physically disabling conditions (poliomyelitis, cleft palate, arthritis, measles, and other commonly injurious conditions) which cause either temporary or permanent decreases in educational proficiency; special methods of instruction and suitable adaptations of materials for such afflicted children within the framework of the public school organization.
- 485. Social Case Work in Education. (3).**
An introductory course designed to acquaint the student with the concepts and principles underlying social case work.

487. Methods and Materials for Teaching Visually Handicapped Children. (3).

A course primarily designed for teachers of the partially-seeing and blind within the framework of public schools, consisting of study in the growth and development of visual imbalance, and the environment and educational implications of visual problems; the historical background of special programs in the education of the visually handicapped, and the adaptations of educational methods and materials to the teaching of such handicapped children.

488. Introduction to the Teaching of Braille. (3).

A course designed to give the basic fundamentals in Braille instruction, including the introduction of equipment for Braille writing, development of skill in the use of such equipment, the history and development of Braille and other instructional procedures for the blind, and mastery of the Nemeth Code of Mathematics, three-dimensional bulletin boards and equipment, and practicum in the use of these materials.

489. Advanced Braille. (3).

A course designed to complete the proficiency in the use of Braille writing by teachers of visually handicapped children. **PREREQUISITE:** Special Education 488 or equivalent.

GRADUATE COURSES IN SPECIAL EDUCATION

(Most of the special education courses described above may be taken for graduate credit; see page 187 of this catalog, and the Bulletin of The Graduate School.)

DRAMA

(See SPEECH AND DRAMA)

ECONOMICS AND FINANCE

PROFESSOR ROLAND THOMAS MULLINS, *Chairman*
Room 101, The School of Business Administration Building

PROFESSOR WEST

ASSISTANT PROFESSORS HOLLIS, MARTIN, PULLEY, and STUTSMAN

MR. GUYNN

Requirements for the majors and minors in economics and in finance for the Bachelor of Business Administration degree are listed on page 127. Requirements for the major and minor in economics for the bachelor's degree in The School of Arts and Sciences are listed on page 115.

211. Principles of Economics I. (3).

An introduction to economic concepts and terminology and to the fundamental principles underlying the production, exchange, distribution, and consumption of income and wealth, together with the application of those principles to major contemporary problems. Attention is given to both the neo-classical and the national income methods of economic analysis.

212. Principles of Economics II. (3).

A continuation of Economics 211. **PREREQUISITE:** Economics 211.

- 304. Economics of Transportation.** (Formerly Management 304). (3).
Development of American transportation system—waterways, highways, railways, and air; characteristics of modern transportation services; rates and rate making; public aid and regulation; economics of transportation. PREREQUISITES: Economics 211 and 212.
- 311. Economic Development of the United States.** (Formerly Management 311). (3).
Analysis of economic growth of the American economy. Emphasis is placed on the factors instrumental in that growth in the various segments of the economy. PREREQUISITES: Economics 211 and 212.
- 312. Economics of Business Enterprise.** (Formerly Management 312). (3).
Analysis of the functioning of business enterprise by applying economic theory to the actual problems of business. Analysis techniques are applied to profit, competition, product policy, demand and cost conditions, pricing policies, and capital budgeting. Both semesters. PREREQUISITES: Economics 211 and 212.
- 313. Economics of Consumption.** (Formerly Management 313). (3).
Analysis of the role of the consumer in the functioning of the economic system and his viewpoint in relation to economic problems affecting his interests. Spring semester. PREREQUISITES: Economics 211 and 212.
- 321. Labor Economics.** (Formerly Economics 312 and Management 321). (3).
An introductory course dealing with the principles, history, and theories of labor policies. Both semesters. PREREQUISITES: Economics 211 and 212.
- 361. Money and Banking I.** (Formerly Economics 321 and Management 361). (3).
Monetary and banking history of leading countries with special emphasis on the theory of money and banking in the United States, deposit and earning operations of individual banks, interbank and central bank relations. Both semesters. PREREQUISITES: Economics 211 and 212.
- 411. Development of Economic Thought.** (Formerly Economics 421). (3).
An analytical and critical study of the development of economic thought. PREREQUISITES: Economics 211 and 212.
- 412. Comparative Economic Systems.** (Formerly Economics 434). (3).
Analytical study of economic problems and the theoretical framework under different economic systems such as capitalism, socialism, communism, with emphasis on the economic problems of the U.S.S.R. PREREQUISITES: Economics 211 and 212.
- 413. Economic Theory I.** (Formerly Economics 341 and Management 413). (3).
An introduction to the following concepts of price level, output, and employment: national income, neo-classical, quantity of money theory, and neo-Keynesian. PREREQUISITES: Economics 211 and 212.

- 414. Business Cycles and Forecasting.** (Formerly Economics 432 and Management 414). (3).
Study of factors involved in the movements of business activity: irregular, seasonal, regular, and trend; application of the same for forecasting purposes in business. **PREREQUISITES:** Economics 361 and Management 371.
- 451. Public Finance.** (Formerly Economics 322 and Management 451). (3).
Theory and practice of government expenditure and revenue; theory, practice, shifting, and incidence of the various forms of taxation; elementary consideration of the integrating of revenue and expenditure into fiscal policy. Fall semester. **PREREQUISITES:** Economics 211 and 212.
- 452. State and Local Finance.** (Formerly Management 452). (3).
Specialized treatment of state and local financial administration or revenue and expenditure with emphasis on Tennessee; consideration is given to trends in policy formation and integration with Federal fiscal policy. **PREREQUISITES:** Economics 211 and 212.
- 461. Money and Banking II.** (Formerly Management 461). (3).
A detailed consideration of banking and its problems since 1930, with emphasis on monetary and banking policy and its relationship to business and fiscal policy. Fall semester. **PREREQUISITE:** Economics 361.
- 462. Investments.** (Formerly Management 462). (3).
The principles of investment in stocks and bonds and their application to specific classes of investments. Spring semester. **PREREQUISITE:** Management 341.
- 491. Government Regulation and Business Policy.** (Formerly Management 491). (3).
A critical study of the impact of legislation and commission regulation on business policies; the effect of tax laws, Securities and Exchange Commission regulation and anti-monopoly legislation, and organizational, financial, and operational aspects of non-utility business enterprises. Fall semester. **PREREQUISITES:** Economics 211 and 212.
- 492. National Income Analysis and Fiscal Policy.** (Formerly Management 492). (3).
A critical examination of the most desirable goals for fiscal policy and the programs that may be followed to attain the various goals, with emphasis on tools available and techniques involved. Spring semester. **PREREQUISITES:** Economics 413 or 461.
- 493. International Economics.** (Formerly Economics 331 and Management 493). (3).
Historical approach to the theory of international trade, with consideration given to the techniques of control over investment and trade, foreign exchange, balance of payments, and world interdependence. Spring semester. **PREREQUISITE:** Economics 361.

- 494. Current Economic Problems.** (Formerly Economics 332 and Management 494). (3).

A study of current domestic and international economic problems with special emphasis on international trade, foreign investments, economic reconstruction, and world economic organization and cooperation. **PREREQUISITE:** Economics 361.

- 495. Economic and Financial Problems.** (Formerly Management 495). (1-3)

Approved research projects carried on by the student in his major area under supervision of members of the faculty. Both semesters. **PREREQUISITES:** senior standing and permission of the department chairman.

- S-511. Advanced Economic Thought.** (3).

Advanced study of contemporary economic thought. **PREREQUISITE:** Economics 411.

- S-513. Seminar in Economics.** (3).

Special study of selected current problems in this area; for the most part individual studies will be pursued, with group analysis and discussion at regular class meetings. **PREREQUISITE:** permission of the instructor.

- S-561. Monetary and Fiscal Policy.** (Formerly Management S-561). (3).

The planning and implementation of various monetary and fiscal measures, with emphasis on the probable impact on important segments of the economy, the changes most likely to result, and the significance of those changes to business. Included is a survey of the tools, techniques, and changes in economic thinking. **PREREQUISITE:** Economics 461 and 492.

- S-562. Investment Portfolio Planning.** (Formerly Management S-562). (3).

A study of the objectives of investment management with the emphasis on investments by individuals rather than by institutions. A study of risks as the principal elements involved in making investment decisions; the analysis of particular industries, companies, and securities involved in the selection of portfolio securities. The emphasis is on long term investment decisions, but considerable attention is given to the timing of purchases and sales. **PREREQUISITE:** Economics 462.

- S-563. Seminar in Finance.** (3).

Special study of selected current problems in this area; for the most part individual studies will be pursued, with group analysis and discussion at regular class meetings. **PREREQUISITE:** permission of the instructor.

GRADUATE COURSES IN ECONOMICS AND FINANCE

(The 400 and 500 courses described in the preceding section may be taken

for graduate credit. For further details of the graduate program see the Bulletin of The Graduate School.)

EDUCATION

(See CURRICULUM AND INSTRUCTION)

EDUCATIONAL ADMINISTRATION AND SUPERVISION

PROFESSOR ELLERY EARL CRADER, *Chairman*
Room 264, Administration Building

PROFESSOR HAYNES

The Department of Educational Administration and supervision does not offer courses at the undergraduate level; the 400 courses listed below are described under the Department of Curriculum and Instruction; the 500 courses are described in the Bulletin of The Graduate School.

- G-411. School and Community Relationships. (3).
- G-486. Elementary School Administration. (3).
 - 537. Techniques of Educational Research. (3).
 - 571. City and County School Supervision. (3).
 - 572. High School Supervision. (3).
 - 573. Elementary School Supervision. (3).
 - 581. Public School Organization and Administration. (3).
 - 582. School Finance and Business Management. (3).
 - 583. School Housing and Transportation. (3).
 - 584. High School Administration. (3).
 - 585. Personnel Management in School Administration. (3).
 - 586. Basic Theories of Educational Administration. (3).
 - 587. Contemporary Issues in Educational Leadership. (3).
 - 588. School Law. (3).
 - 589. Human Relations in School Administration. (3).
 - 591. Special Problems. (1 to 3).
- 593-6. Thesis. (3 or 6).
- 599. Seminar in Educational Leadership. (1 to 6).

ENGLISH

PROFESSOR REDDING S. SUGG, JR., *Chairman*
Room 320, Administration Building

PROFESSORS BANNON, CARSON, EVANS, FARRIOR, WALTER SMITH,
and WYNN

ASSOCIATE PROFESSORS CHILDERS, HOWELL, OSBORNE, PHILLIPS, SEAY,
ALFRED SMITH, and WOOLF

ASSISTANT PROFESSORS ABBETT, BOWMAN, COTHAM, DAMERON,
JAMES, McLAURIN, McLEMORE, RILEY, and STAGG

MRS. ALLEN, MR. BLEVINS, MR. BURGESS, MISS CHANEY, MISS CLIFTON,
MR. COCHRAN, MR. COLLINS, MRS. COLLINS, MRS. DAVIS, MISS ENSLEY,
MRS. FOX, MR. FURR, MR. GENTRY, MR. GRIMES, MR. HAGOOD, MISS HUFF,
MISS JAMES, MISS JONES, MRS. KUBIK, MISS MARTIN, MR. MAYFIELD,
MISS McNIEL, MR. MORGAN, MR. NAIL, MR. PAGE, MRS. REID,
MR. ROBINSON, MR. WILLIAMS, and MR. YOUNG.

MRS. BATTLE

Requirements for the major and minor in English are listed on page 115. All candidates for graduation at Memphis State University are required to complete English 111, 112, 211, 212, or their equivalent. These courses must be scheduled consecutively through the freshman and sophomore years, or until completed and may not be dropped from the student's course load except under very special conditions. They must be taken in sequence; no credit will be allowed on any course until all the preceding courses have been completed successfully.

111. English Fundamentals. (3).

Training in correct writing, including a review of sentence and paragraph construction, diction, punctuation, grammar, and spelling; expository and narrative themes; readings in fiction and non-fiction.

112. English Fundamentals. (3).

A continuation of English 111, devoted to the more complex forms of writing and additional readings. **PREREQUISITE:** English 111 or the equivalent.

211. English Literature. (3).

A survey of English literature from the beginning to the period of Romanticism, with emphasis on the works of Chaucer, Spenser, Shakespeare, Milton, Dryden, Addison, Steele, Pope, Swift, and Goldsmith. **PREREQUISITES:** English 111 and 112, or the equivalent.

212. English Literature. (3).

A survey of English literature from the period of Romanticism to the present day, with emphasis on the works of Wordsworth, Coleridge, Shelley, Keats, Byron, Carlyle, Tennyson, Browning, Arnold, Hardy, Housman, Yeats, and Eliot. **PREREQUISITES:** English 111, 112, and 211, or the equivalent.

NOTE: No student may enroll for an upper-division English course until he has completed satisfactorily English 111, 112, 211, 212, or the equivalent.

- 301. Survey of American Literature. (3).**
A study of American literature from the beginnings to the period of the Civil War, with emphasis on major writers between 1820 and 1860.
- 302. Survey of American Literature. (3).**
Major writers and literary trends from the Civil War to the close of the nineteenth century.
- 303. Survey of American Literature. (3).**
A continuation of the study of American literature from the close of the nineteenth century to the present time, with attention given to the development of realism and naturalism, and to social and cultural backgrounds.
- 311. Early American Novel. (3).**
A critical examination of the background of the American novel from its beginning. Readings will consist of representative novels of nineteenth-century America.
- 312. The Modern American Novel. (3).**
Critical analysis and appreciation of representative American novels from 1900 to the present.
- 313. The Continental Novel. (3).**
Critical analysis and appreciation of representative novels chosen from the works of important European writers from 1850 to 1950.
- 331. The Short Story. (3).**
A critical study of modern short stories, English, American, and European: the authors' responses to the personal, social, and ethical problems of their time and their techniques as artists.
- 332. Modern Poetry. (3).**
A study of major English and American poets writing between 1900 and the present with attention given to Hardy, Yeats, Thomas, Auden, Eliot, Robinson, Frost, Stevens, Cummings, and Ransom.
- 340. Seventeenth-Century Literature. (3).**
The major poetry and prose of Donne, Jonson, Bacon, Browne, Dryden, and others are analyzed carefully and considered in relation to the historical and intellectual developments of the seventeenth century.
- 341. Eighteenth-Century English Literature. (3).**
Poetry and prose from Pomfret to Blake. Detailed study of representative works with some attention to the origin and course of neoclassicism and romanticism.
- 342. Romantic Poets of the Nineteenth Century. (3).**
The poetry of Shelley, Keats, and Byron. Collateral readings in prose of the period.
- 350. The Renaissance. (3).**
A study of non-dramatic poetry and prose of sixteenth-century England.
- 351. Victorian Poetry. (3).**
A study of major English poets writing between 1830 and 1900, with

some consideration of the social, intellectual, and aesthetic interests of their times. Particular attention will be given to the poetry of Arnold, Rossetti, Morris, and Swinburne; additional selections will be drawn from the works of Fitzgerald, Clough, Christina Rossetti, Meredith, Hopkins, Hardy, and Housman.

352. Victorian Prose. (3).

A study of selections from the critical and philosophical prose of the great Victorians, with consideration of social, political, intellectual, and aesthetic ideas and interests of their era (1830-1900). Particular attention will be devoted to the major works of Carlyle, Mill, Newman, Arnold, Ruskin, Morris, Huxley, and Pater.

361. World Literature—Ancient Period. (3).

Classics from ancient literature, principally Greek and Roman, are studied with a view of discovering permanent elements of culture. English translations are used.

362. World Literature—Medieval Period. (3).

A study of translated European classics beginning with the medieval epic and ending with the Renaissance.

370. Mythology. (3).

A study of the myths of Greece and Rome.

372. Creative Writing. (3).

Extensive writing of essays and short stories. Intensive study of literary models. Class discussion and criticism of student manuscripts. **PREREQUISITE:** Permission of the instructor.

380. Biblical Literature. (3).

A study of selected books from the Old and New Testaments for their literary value with consideration given to the place of the Bible in world literature.

400. Literary Criticism. (3).

The major documents in Western criticism, from Plato to the present.

401. Old English Grammar and Readings. (3).

Emphasis is chiefly upon Anglo-Saxon grammar with some time devoted to selections from the literature of the period.

402. Beowulf. (3).

A continuation of English 401, with literary and linguistic emphasis.

411. Early English Drama. (3).

British drama, exclusive of Shakespeare, is traced from its beginnings to the closing of the theaters in 1642.

412. English Drama since 1642. (3).

A continuation of English 411, beginning with the Restoration and continuing to the present.

413. Studies in American Drama. (3).

The development of the American drama as a literary form and its relation to currents in American thought.

420. Spenser. (3).

The Faerie Queene and other major poems are studied in the con-

text of the historical, intellectual, and literary developments of the English Renaissance.

421. Chaucer. (3).

As many of *The Canterbury Tales* as possible are read and discussed in class.

422. Milton. (3).

The poetry of Milton is emphasized in this course, with some attention given to his essays.

423. Tennyson and Browning. (3).

An intensive study of selected poems of different types produced by each poet. Their philosophy and religion are considered, as well as their connection with forerunners and successors.

424. Coleridge and Wordsworth. (3).

The poetry and prose of Coleridge and Wordsworth with special attention to *The Prelude*.

432. Shakespeare's Tragedies. (3).

All of Shakespeare's tragedies are read and critical examination is made of at least five of the author's greatest works. Attention is given to the principles governing tragedy.

433. Shakespeare's Comedies and Histories. (3).

The best known of Shakespeare's comedies are included in this course. In addition several of his histories are studied.

441. The English Language. (3).

A thorough investigation of the development of the English language from the standpoint of phonology and etymology.

442. English Grammar. (3).

The historical development of English grammatical principles.

443. Semantics. (3).

Meaning and change of meaning in the use of English words.

451. The English Novel. (3).

A critical appreciation of representative novels. Class discussion of their literary and historical merit and of their reflection of the authors' responses to the personal, social, and ethical problems of the times. From the Age of Elizabeth to mid-nineteenth century.

452. The English Novel. (3).

A continuation of English 451. From mid-nineteenth century to the present.

461. American Authors. (3).

An analysis of the work of three nineteenth-century writers of fiction—Poe, Hawthorne, and Melville—with special attention to their themes and artistic forms.

462. American Authors. (3).

An appreciation of Emerson, Thoreau, and Whitman as poets and essayists, with emphasis upon their place in the development of ideas and art forms.

463. American Authors. (3).

A study of the shorter works and critical theories of Mark Twain,

W. D. Howells, and Henry James, with consideration of their relation to the culture of their period.

464. **American Authors. (3).**
A study of the work and critical appreciation of Emily Dickinson, E. A. Robinson, Robert Frost, and Carl Sandburg.
470. **The South in Literature. (3).**
A study of the culture and traditions of the South as reflected in its literature. Considerable independent reading will be required.
471. **American Folklore and Humor. (3).**
Wide reading in and analytical study of the major types of folklore in America, including Indian, Negro, transplanted British, and native American materials which formed part of the oral tradition in American humor, culminating in the works of Mark Twain.
490. **British and Continental Backgrounds of English Literature. (6).**
This course is offered through travel and study; students are admitted by special permission of the instructor and tour conductor.

GRADUATE COURSES IN ENGLISH

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses and further details of graduate program see the Bulletin of The Graduate School.)

- G-400. **The Principles of Literary Criticism. (3).**
- G-401. **Old English Grammar. (3).**
- G-402. **Beowulf. (3).**
- G-411. **Early English Drama. (3).**
- G-412. **English Drama since 1642. (3).**
- G-413. **Studies in American Drama. (3).**
- G-420. **Spenser. (3).**
- G-421. **Chaucer. (3).**
- G-422. **Milton. (3).**
- G-423. **Tennyson and Browning. (3).**
- G-424. **Coleridge and Wordsworth. (3).**
- G-432. **Shakespeare's Tragedies.**
- G-433. **Shakespeare's Comedies and Histories. (3).**
- G-441. **The English Language. (3).**
- G-442. **English Grammar. (3).**
- G-443. **Semantics. (3).**
- G-451. **The English Novel. (3).**
- G-452. **The English Novel. (3).**
- G-461. **American Authors. (3).**
- G-462. **American Authors. (3).**
- G-463. **American Authors. (3).**
- G-464. **American Authors. (3).**
- G-470. **The South in Literature. (3).**
- G-471. **American Folklore and Humor. (3).**
- G-490. **British and Continental Backgrounds of English Literature. (6).**
500. **Bibliography and Methods of Research. (3).**

- 501. Studies in English Vocabulary. (3).
- 531. Studies in Ancient Drama. (3).
- 532. Studies in Medieval and Modern Drama. (3).
- 533. Studies in Non-Dramatic Literature—Ancient. (3).
- 534. Studies in Non-Dramatic Literature—Medieval and Renaissance. (3).
- 535. Studies in Modern European Fiction. (3).
- 542. Studies in the Eighteenth-Century Novel. (3).
- 543. Restoration and Eighteenth-Century Poetry. (3).
- 551. Milton and His Age. (3).
- 552. Milton and His Age. (3).
- 561. Studies in American Literature before 1860. (3).
- 562. Studies in American Literature since 1860. (3).
- 571. Studies in the Literature of the Romantic Period. (3).
- 572. Studies in Victorian Literature. (3).
- 580. Seminar on Poe. (3).
- 581. Seminar on Whitman. (3).
- 593-6. Thesis. (3 or 6).

FINANCE

(See ECONOMICS AND FINANCE)

FRENCH

(See MODERN LANGUAGES)

GEOGRAPHY

PROFESSOR PAUL HARDEMAN SISCO, *Chairman*
Room 109, Johnson Hall

PROFESSOR JOHNSON

ASSOCIATE PROFESSORS MATTHEWS and SOBOL

ASSISTANT PROFESSORS BUTLER, CORBET, and FRYE

MR. AIKEN, MRS. ALMY, and MR. BARBER

MR. SIMMONS, and MR. WELLMAN

Requirements for the major and minor in Geography are listed on page 115. The Army Map Service of Washington, D.C., has chosen the map library in Johnson Hall at Memphis State University as a depository for some 10,000 of its maps. These maps embrace all phases of social science work, and all students of the department will be directed to use them frequently.

- 111. **Introduction to Earth Science I. (3).**
An introductory study of earth-sun and earth-moon relations, the oceans and their movements, weather, and climate.
Two lecture, two laboratory hours per week.
- 112. **Introduction to Earth Science II. (3).**
An introductory study of maps as a basic tool in understanding earth

phenomena, landforms, the structure and composition of rocks, soils and their capabilities.

Two lecture, two laboratory hours per week.

(Geography 111 and 112 will satisfy the requirement of one year of a physical science for the baccalaureate degree.)

121. **Economic Geography: Major Basic Resources. (3).**
Man's development and use of such major basic resources as land, water, forests, and minerals.
122. **Economic Geography: Industrial and Commercial. (3).**
An introductory study of manufacturing, trade, and transportation.
235. **A Survey of World Regions I. (3).**
Regional geography of Europe, the Soviet Union, and the Middle East with emphasis on the people and their activities as related to the environment.
236. **A Survey of World Regions II. (3).**
Regional geography of the Orient, the Pacific world, Africa, and Latin America, with emphasis on the people and their activities as related to the environment.
321. **Historical Geography of Europe. (3).**
An analysis of human occupancy in Europe during selected periods, with a study of significant relationships between the physical and cultural features.
322. **Historical Geography of the United States. (3).**
A study of the geography of selected areas of the United States for sequent periods of their occupancy by the white man.
331. **Anglo-America I. (3).**
An analytical study of the cultural-physical complex in the area of the United States east of the Rockies.
332. **Anglo-America II. (3).**
An analytical study of the cultural-physical complex in the western United States, Canada, and Alaska.
333. **Middle America. (3).**
A study of the regions and resources of Mexico, Central America, and the West Indies as they relate to present and potential economic development.
334. **South America. (3).**
An analysis of the regional economies, resources, and trade in the continent, with stress upon the changing significance of the landscape as related to national and international problems.
335. **Africa. (3). (Formerly Geography 232).**
A survey of a low latitude continent with high contrasts in cultural and physical phenomena.
341. **Cartography. (3).**
An introductory course in (1) map projections, grids, scales, symbols, and (2) map drafting for geographical uses. Lectures and laboratory work.
342. **Map Intelligence. (3).**
An intensive investigation of charts, graphs, maps, and aerial photography as geographical tools. Lectures and laboratory work in the

Johnson Hall Map Library, a depository of the United States Army Map Service for all maps and material it provides.

343. Photogrammetry. (3).

A survey course dealing with the art and science of obtaining geographic information from landscape surveys by means of photography.

351. Principles of Conservation. (3).

Current problems and responsibilities relating to the conservation of soil, minerals, forests, water, wild life, and the natural beauty of the earth. One field trip is required.

***411. Earth Science I. The Earth. (3).**

An analytical study of land forms, their changes, and their uses to man.

***412. Earth Science II. The Atmosphere. (3).**

An analytical study of climatic factors, climatic regions, and climatic effects on man.

***413. Earth Science III. The Soil. (3).**

An analytical study of soils to include their physical, chemical, and biological qualities, and their classes, uses, and measures of conservation.

***414. Earth Science IV. The Oceans. (3).**

An analytical study of the oceans to include their physical, chemical, and biological qualities; their movements, resources, climatic influences, and importance for transportation.

421. Geography and World Power. (3).

The potential strength of the United States as a world power based on the culture and economy of the people, and the natural resources of the country.

422. Geopolitics. (3).

An analysis of the world's political regions, with primary emphasis placed on the varied factors affecting the political importance of the principal powers and power blocs. Individual student study into selected problems is an integral part of this course. Enrollment limited to the advanced AF-ROTC cadets.

431. Western Europe. (3).

A geographic analysis of the lands west of the Iron Curtain.

432. The Soviet Realm. (3).

A regional analysis of the Soviet Union and its satellites.

433. Asia South of the Soviet Realm. (3).

A consideration of the significance of regional differences in Japan, China, and India, and a brief survey of the remaining areas.

436. The South. (3).

A specialized study of selected regions in the South with emphasis on changes and trends in the cultural-physical complex.

*Geography 411, 412, 413, and 414 are designed to be of interest and value to students in the physical sciences as well as those in the social sciences; assignments include lectures, laboratory work, and field trips.

437. Tennessee. (3).

A comparison of the human-use, political, and physical regions of the state.

441-A. Local Field Study. (3).

A brief study of field planning and techniques and an application of these phenomena in reconnaissance field work and in the detailed mapping of physical and cultural features. Three half-day field trips are required. **PREREQUISITE:** permission of the instructor.

441-B. Regional Field Study. (6).

A comparative study of selected regions of the world, including library study of the regions to be traversed, a minimum of sixteen days of study in the regions, and oral and written reports. **PREREQUISITE:** permission of the instructor.

455. Workshop in Conservation. (3 or 6).

A course for students interested in resource problems in Tennessee, in remedial measures applied to specific resource abuses in local communities, and in increasing inspiration and enthusiasm through association with trained resource workers.

461. Urban Land Uses. (3). (Formerly Geography 451).

A study of the allocation of land for urban uses; the adjustments and adaptations to existing physical phenomena; the patterns, functions, and forms of specific urban land areas; and some of the continuous problems of urban development and growth.

462. City Planning. (3). (Formerly Geography 452).

The fundamental principles of urban planning, basic elements of a city plan, and the necessity of continuity in planning administration.

463. Urban Renewal. (3). (Formerly Geography 453).

Changing urban land uses, first in areas which must improve or rebuild obsolete patterns, functions, and forms; and second in areas with acceptable uses, structures, and institutions which in the interest and welfare of all the people must have additional space for growth and expansion.

464. Residential Housing. (3). (Formerly Geography 454).

A study of residential housing primarily in urban areas, sub-division development, and the major phases of home building and financing.

S525. Political Geography. (3). (Formerly Geography 425).

The content and philosophy of political geography as illustrated by a broad survey of major writers in the field followed by student analysis of individual nation-states.

GRADUATE COURSES IN GEOGRAPHY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses and further details of the graduate program see the Bulletin of The Graduate School.)

G-411. Earth Science I. The Earth. (3).**G-412. Earth Science II. The Atmosphere. (3).**

- G-413. Earth Science III. The Soil. (3).
- G-414. Earth Science IV. The Oceans. (3).
- G-421. Geography and World Power. (3).
- G-425. Political Geography. (3).
- G-431. Western Europe. (3).
- G-432. The Soviet Realm. (3).
- G-433. Asia South of the Soviet Realm. (3).
- G-436. The South. (3).
- G-437. Tennessee. (3).
- G-441A. Local Field Study. (3).
- G-441B. Regional Field Study. (6).
- G-455. Workshop in Conservation. (3 or 6).
- G-461. Urban Land Uses. (Formerly Geography G-451). (3).
- G-462. City Planning. (Formerly Geography G-452). (3).
- G-463. Urban Renewal. (Formerly Geography G-453). (3).
- G-464. Residential Housing, (Formerly Geography G-454). (3).
 - 521. Economic Geography: Agricultural. (3).
 - 522. Economic Geography: Industrial and Commercial. (3).
 - 524. Population Geography. (3).
 - 525. Political Geography. (3).
 - 531. Seminar in Regional Geography. (3).
 - 541. Maps, Charts, and Graphs. (3).
 - 551. Conservation of Natural Resources. (3).
 - 565. Transportational Lands. (3).
 - 566. Commercial Lands. (3).
 - 571. Geographic Tools and Techniques. (Formerly Geography 561). (3).
 - 590. Development of Geographic Thought. (3).
 - 591A. Problems in Regional Geography. (3).
 - 591B. Problems in Non-Regional Geography. (3).
 - 593-6. Thesis. (3 or 6).

GERMAN

(See MODERN LANGUAGES)

GREEK

(See CLASSICAL LANGUAGES)

HEALTH AND PHYSICAL EDUCATION

PROFESSOR RALPH L. HATLEY, *Chairman*
Room 215, Field House

PROFESSOR LAMBERT

ASSOCIATE PROFESSORS DAVIS, ROANE, and SCOTT

ASSISTANT PROFESSORS EHLERS, FLOYD, FRENCH, ILLING, and JOHNSON

MR. BROWN, MR. BRYSON, MR. COBB, MISS DOWD, MRS. DUVAL,
MR. HOGGATT, MR. HUMPHREYS, MR. MURPHY,
MRS. OWEN, MR. PATRICK, MR. PRICE, MISS ROBERTS, MR. SMITH
MR. STEPHENSON, and MR. WAITES

DR. COLSTON

Majors and minors are offered in (1) health and (2) health and physical education. Requirements are listed on page 141.

For details of the program in corrective therapy offered in cooperation with Kennedy Veterans Hospital, see the department chairman.

HEALTH

101. Health, Personal and Community. (3).

The physiological basis of correct living, including fundamental biological facts; the psychological aspects of human behavior as they affect the individual health conduct and mental hygiene; the agents of disease and modern scientific methods of controlling them; the roles of public health agencies and related cooperative agencies; the individual's responsibility for maintaining a healthful community.

150. Introduction to Public Health. (3).

The organization and structure of official and voluntary health agencies, international, national, state, and local, with a consideration of their aims, objectives, and principles as they are related to the nurse and teacher.

151. Control Methods of Preventable Diseases. (3).

The factors which relate to the control of communicable and non-communicable disease; modern techniques of prevention, immunization against, and control of disease through medical and nursing supervision.

241. Nutrition. (3). Same as Home Economics 241.

231. Safety and First Aid. (3).

First aid and safety measures for the home, school, and community; use of first aid materials; recognition of injuries and emergency treatment.

250. Maternal and Child Health. (3).

A study of the development of community programs for adequate maternal and child care, with emphasis on the improvement of social, economic, and physical welfare of mothers and children through cooperation of all community agencies; materials, techniques, and resources used in solving maternal and child health problems.

301. Health Education in Schools. (3).

An analysis of the health problems of school-age children in the home, school, and community, with emphasis on improving health behavior through sound health teaching; procedures and principles involved in coordinating health instruction with other areas of the curriculum; materials and resources for health teaching.

302. Health Service in Schools. (3).

Methods of organizing and implementing health measures in schools and of relating them to other community agencies; techniques for determining health status through screening processes; the detection of remedial defects and follow-up for correction; the promotion of health through environment and special health services; sanitation in the home, school, and community as it affects the school child.

321. Advanced Safety and First Aid. (2).

A course for students who wish to qualify for American Red Cross approval as instructors in first aid; emphasis is placed on the techniques of demonstration and presentation of first aid principles and methods. Upon successful completion of this course, the student will be awarded an American Red Cross First Aid Instructor's Certification. **PREREQUISITE:** Health 231, or ARC Advanced Certificate.

414. Problems of the Exceptional Child. (Same as Psychology 414). (3).**415. Education of Exceptional Children. (Same as Special Education 480). (3).****416. Observation in Community Agencies. (3).**

An introduction to the purposes, objectives, functions, and programs of a variety of community health and welfare agencies, with opportunities to visit official and volunteer agencies. Application should be made at least 60 days before the student plans to enroll in the course. **PREREQUISITE:** permission of the chairman of the Department of Health and Physical Education.

417. Field Practice in Community Agencies. (3).

Observation and supervised practice of all phases of public health activities in which the student would be expected to participate in professional life; the course is organized to meet the needs of the individual student. Application must be made at least 60 days before the student plans to enroll in the course. **PREREQUISITE:** permission of the chairman of the Department of Health and Physical Education.

***434. Problems in Health Education. (1 to 3).**

Designed to afford opportunities for prospective or in-service school and other professional personnel to work individually or in groups on health education factors in the solution of practical problems. **PREREQUISITE:** permission of the instructor.

450. Supervision and Administration in Health Agencies. (3).

The functions, principles, and procedures of supervision and administration of health agencies, with emphasis on the relationship and responsibilities of personnel in planning, promoting, improving, and

*Credit may be earned in only one of the following courses: Health 434, Physical Education 434.

evaluating the total health activities in the family-centered health services; legal and legislative aspects of health activities.

470. Trends and Problems in Public Health. (3).

A review of the historical development and current trends in professional nursing as a community service; the various needs and demands for medical care; the contribution of the professional personnel in providing for total health services and education.

476. Mental Hygiene. (Same as Education 476). (3).

480. Health Statistics. (3).

A study of the statistical method, including collection, analysis, and presentation of numerical data pertaining to health problems.

GRADUATE COURSES IN HEALTH

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit may be given. For details of the graduate program, see the Bulletin of The Graduate School.)

G-416. Observation in Community Agencies. (3).

G-417. Field Practice in Community Agencies. (3).

G-450. Supervision and Administration in Health Agencies. (3).

G-470. Trends and Problems in Public Health. (3).

G-480. Health Statistics. (3).

551. Health Education in Organic and Functional Diseases. (3).

552. Community Health Education. (3).

553. Health Guidance and Counseling. (3).

554. Environmental and Occupational Health Education. (3).

PHYSICAL EDUCATION

(For details of the physical education requirements for graduation, see page 93.)

100. Orientation to Physical Activity. (1).

Orientation to physical activity (for men); orientation and fundamental rhythms (for women). One semester required of all students (except majors and minors in health and physical education). (Transfer students with at least one semester hour of physical education credit from the previous school need not take Physical Education 100 as a prerequisite for 200 physical education courses).

111. Orientation for Physical Education Majors and Minors. (1).

Fundamental movements, touch football, basketball (for men); volleyball, soccer, speedball, and tumbling (for women). This course is required of and restricted to students majoring or minoring in physical education.

2—. Selected Physical Activities. (1).

Two or three semesters required of all students, the specific course number to be selected from the following list. **PREREQUISITE:** Physical Education 100.

MEN

- 211. Inactive and adaptive
- 212. Tumbling, wrestling, and trampoline
- 213. Weightlifting
- 214. Bowling
- 215. Tennis
- 216. Golf and recreational games
- 217. Volleyball and softball
- 218. Badminton
- 219. Swimming
- 220. Handball

WOMEN

- 251. Inactive and adaptive
- 252. Soccer, speed ball and volleyball
- 253. Basketball, field hockey, softball
- 255. Badminton
- 256. Tennis
- 257. Golf
- 258. Beginning swimming
- 259. Intermediate swimming
- 262. Fencing
- 263. Equestrian
- 264. Tumbling and trampoline

CO-EDUCATIONAL

- 241. Folk and social dance
- 242. Tap dance
- 243. Modern dance
- 244. Modern dance (advanced)
- 245. Archery and bowling
- 265. Badminton (advanced)

NOTE: The following courses are required of all students majoring in health and physical education.

- 111. (See description above)
- 212. Tumbling, wrestling, and trampoline (men)
- 217. Volleyball, softball, speedball (men)
- 241. Folk and social dance
- 243. Modern dance (women)
- 245. Archery and recreation games
- 246. Tennis and golf
- 253. Basketball, fieldball, softball, track and field events (women)
- 260. Survival Swimming
- 261. Swimming (life saving)

281. Fundamentals and Techniques of Football. (2).

Fundamentals of football coaching with special emphasis on blocking, tackling, passing, punting, catching; principles of line and backfield work; playing the various positions; formation of plays, generalship, signal systems, and scouting; coaching problems; study of the rules.

282. Fundamentals and Techniques of Basketball. (2).

The theory and practice of basketball coaching, history of the game, and study of the rules; offensive and defensive systems; drills for the development of fundamental skills; training and conditioning of basketball squads.

283. Fundamentals and Techniques of Track and Field. (2).

The accepted forms of starting, hurdling, distance running, pole vaulting, discus and javelin throwing, and sprinting; physical conditions affecting speed, endurance, and fatigue; the selection and preparation of contestants for track and field events; managing and officiating games and meets; study of rules.

284. Fundamentals and Techniques of Baseball and Softball. (2).

The theory and practice of baseball coaching, with attention given to the coaching of the individual in base running, fielding, batting, and pitching; detailed study of each position; offensive and defensive team play; officiating; scoring; study of rules.

299. History and Principles of Physical Education. (Formerly P.E.310) (2).

A study of physical education systems and practices from the beginnings to the present time, designed to show the place of a sound physical education program in the modern school system; underlying principles common to all epochs; changes related to political and economic cycles.

327. Materials and Methods in Team Sports for Women. (3).

Fundamentals of teaching and coaching team sports, including history, rules, skills, and teaching progressions; laboratory experience in intra-

mural and activity classes. PREREQUISITES: Physical Education 111 and 253.

Two lecture, two laboratory hours per week.

338. Materials and Methods in Individual and Dual Sports. (3).

Study of teaching methods, instruction and participation in individual recreational sports, tumbling, mass gymnastics, and conditioning activities; means of providing facilities for these activities. PREREQUISITES: Physical Education 245 and 246.

Two lecture, two laboratory hours per week.

332. Tests and Measurements in Health and Physical Education. (3).

A study of the various tests in the field of health and physical education, including uses and interpretation of elementary statistical techniques.

342. Corrective and Adaptive Physical Education. (2).

A theory course including lectures, demonstrations, and problems of the mechanics of physical deformities and their causes; abnormalities of the spine, feet, and other postural and functional conditions; and methods of class organization.

Two lecture hours per week, plus laboratory periods to be arranged.

343. Kinesiology. (3).

Analysis of bodily movements in terms of the muscular forces operating on the bones. PREREQUISITES: Biology 131 and 132.

344. Physiology of Exercise. (Same as Biology 344). (3).

PREREQUISITES: Biology 131 and 132.

345. Care and Treatment of Athletic Injuries. (2).

Practical and theoretical aspects of treatment of athletic injuries in an athletic training program; supplies, training table, therapeutic equipment, and techniques in conditioning and bandaging.

350. Methods and Materials in Rhythms for Elementary School. (2).

Basic theory, participation, techniques, materials, and teaching methods in rhythmic activities from grades 1 through 9.

Laboratory periods to be arranged.

351. Methods and Materials in Rhythms and Dance. (3).

Basic theory, participation, techniques, materials, and teaching methods in rhythmic activities from grades 1 through 12. PREREQUISITE: Physical Education 241.

Laboratory periods to be arranged.

372. Outdoor Education and Camp Leadership. (3).

The philosophy, modern trends, administration, program content and methods of leadership in camping and outdoor education activities. Field trips and outdoor camping experiences.

391. Materials and Methods in Physical Education for Elementary Schools. (2).

Theory of and activities for physical education in grades 1 through 9, including teaching methods, program planning, and participation in stunts, mass gymnastics, relays, informal games, team games, individual and dual sports, and mimetics; practical experience is gained

through observing and directing play activities for children in the University Training School.

Laboratory periods to be arranged.

- 421. Special Problems in Athletic Coaching. (3).**
A special program in the coaching of athletics, including the completion of a research project under the supervision of a staff member; work may be carried on as an organized group study. This course may be taken only one time for credit. **PREREQUISITE:** coaching experience, or permission of the instructor.
- 426. Recreational Leadership. (3).**
Development of skills and techniques necessary for successful leadership in city, county, and school recreation programs.
- *434. Problems in Physical Education. (1 to 3).**
Designed to afford opportunity for prospective or in-service school and other professional personnel to work individually or in groups on physical education factors in the solution of practical problems. **PREREQUISITE:** permission of the instructor.
- 444. Clinical Practice. (6).**
Supervised clinical practice in the Department of Physical Medicine and Rehabilitation Service at the Kennedy Veterans Hospital; instruction will be given in the conditioning, ambulation, and self-care of patients with neurological, pulmonary, geriatric, neuropsychiatric, speech, spinal cord, cardiac, and other types of disabilities.
- 482. Organization and Administration of Health and Physical Education. (3).**
A study of administrative problems of health and physical education, including curriculum, facilities, buying and caring for equipment, general class organization, and organization of an intramural program.

GRADUATE COURSES IN PHYSICAL EDUCATION

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit may be given. For details of the graduate program, see the Bulletin of The Graduate School.)

- G-426. Recreational Leadership. (3).**
- G-444. Clinical Practice. (6).**
- G-482. Organization and Administration of Health and Physical Education. (3).**
- 501. Foundations of Physical Education. (3).**
- 502. Introduction to Research in Health and Physical Education. (3).**
- 503. Foundations of a Philosophy for American Recreation. (3).**
- 510. Measurement and Evaluation in Health and Physical Education. (3).**
- 526. Organization and Administration of Group Recreation. (3).**
- 533. The Administration of Athletics. (3).**
- 562. Curriculum Construction in Health Education and Physical Education. (3).**
- 570. Supervision of Health and Physical Education. (3).**

*Credit may be earned in only one of the following courses: Physical Education 434, Health 434.

571. **The Elementary School Health and Physical Education Program.** (3).
 591. **Special Problems.** (1 to 3).
 593-6. **Thesis.** (3 or 6).

HEBREW

(See MODERN LANGUAGES)

HISTORY

PROFESSOR ENOCH L. MITCHELL, *Chairman*
 Room 108, Administration Building

PROFESSOR BOOM

ASSOCIATE PROFESSORS GILLASPIE and WHITE

ASSISTANT PROFESSORS CRAWFORD, CROUSE, DULY, ELLIS,
 LEON, MARLOW, MITCHELL, ORR, RUMSEY,
 STANDARD, and STOKES

MR. COBB, MR. ISAACS, and MRS. WOODBURY

MR. MCTIGHE, and MRS. PRESCOTT

Requirements for the major and minor in history are listed on page 115. All candidates for graduation at Memphis State University are required to complete History 221 and 222; these courses are not open to students with fewer than 25 semester hours credit.

111. **The Development of European Civilization I.** (3).
 Especially recommended for freshmen, this course traces the forms of western civilization from their ancient beginnings through the seventeenth century.
112. **The Development of European Civilization II.** (3).
 Especially recommended for freshmen, this course traces the forms of western civilization from the beginning of the eighteenth century to the present.
221. **The United States to 1865.** (3).
 A survey of the United States from the discovery to the close of the Civil War. PREREQUISITE: sophomore standing.
222. **The United States since 1865.** (3).
 A survey of the United States from the Civil War to the present. PREREQUISITE: sophomore standing.
301. **History of England before 1660.** (3).
 A survey of the development and growth of England into a nation, with attention given to constitutional progress and the achievements of the Tudor and Stuart periods. PREREQUISITE: junior standing.
302. **History of England since 1660.** (3).
 A survey of the development of England's democratic government, considering economic, social, intellectual, diplomatic, and imperial affairs. PREREQUISITE: junior standing.

- 311. History of Ancient Civilization I. (3).**
A study of the Ancient Near East and Greece through the time of Alexander the Great. PREREQUISITE: History 111.
- 312. History of Ancient Civilization II. (3).**
A study of the Hellenistic World and of the rise and fall of the Roman Empire. PREREQUISITE: History 111.
- 315. Latin America From Discovery to 1825. (Formerly History 271). (3).**
A survey of the institutions and politics of Latin America from discovery to 1825.
PREREQUISITE: sophomore standing.
- 316. Latin America from 1825 to the Present. (Formerly History 272). (3).**
A survey of the institutions and politics of Latin America since 1825.
PREREQUISITE: sophomore standing.
- 331. American Diplomatic History to 1889. (3).**
A study of American diplomacy to 1889. PREREQUISITE: junior standing and History 221 and 222.
- 332. American Diplomatic History since 1889. (3).**
A study of American diplomacy since 1889. PREREQUISITE: junior standing and History 221 and 222.
- 341. Economic History of the United States to 1865. (3).**
A study of American economic development to 1865. PREREQUISITE: junior standing and History 222.
- 342. Economic History of the United States since 1865. (3).**
A study of American economic development since 1865. PREREQUISITE: junior standing and History 222.
- 343. Constitutional History of the United States to 1865. (3).**
A study of the formative period and the early period of operations of the United States Constitution. PREREQUISITE: junior standing and History 221.
- 344. Constitutional History of the United States since 1865. (3).**
A study of the operation of the United States Constitution since 1865. PREREQUISITE: junior standing and History 222.
- 351. History of Tennessee. (Formerly History 431). (3).**
A study of the political, economic, and social development from 1769 to 1861. PREREQUISITE: junior standing and History 221.
- 352. The Old South. (Formerly History 432). (3).**
A study of southern institutions prior to the outbreak of the Civil War. PREREQUISITE: junior standing and History 221.
- 353. The New South. (3).**
A study of the South from the Civil War to the present. PREREQUISITE: junior standing and History 222.
- 354. The West. (Formerly History 322). (3).**
A study of the significance of the frontier in the development of the United States from the Revolutionary period to 1890. PREREQUISITE: junior standing and History 221 and 222.

- 361. Social and Intellectual History of the United States to 1865.** (Formerly History 461). (3).
A study of the main social and intellectual trends in the United States up to 1865. PREREQUISITE: junior standing and History 221.
- 362. Social and Intellectual History of the United States since 1865.** (Formerly History 462). (3).
A study of the main social and intellectual trends in the United States since 1865. PREREQUISITE: junior standing and History 222.
- 371. History of Spain.** (3).
A study of Spanish institutions, culture, and politics. PREREQUISITE: junior standing.
- 372. History of Inter-American Relations from 1808 to the Present.** (3).
A study of the principal developments in Latin American countries since 1808. PREREQUISITE: junior standing.
- 402. History of Russia.** (3).
A survey of Russian history from early times to the present. PREREQUISITE: junior standing.
- 411. The Era of the French Revolution.** (3).
A study of the Enlightenment, the French Revolution, and the Napoleonic era. PREREQUISITE: junior standing.
- 412. Europe in the Nineteenth Century.** (3).
A study of Europe during the period 1815-1914. PREREQUISITE: junior standing.
- 413. Europe in the Twentieth Century.** (3).
A study of Europe since the outbreak of World War I. PREREQUISITE: junior standing.
- 421. Colonial America, 1607-1763.** (Formerly History 321). (3).
A study of English America before 1763, with considerable attention given to Spanish, French, and Dutch colonization. PREREQUISITE: junior standing and History 221.
- 422. Revolutionary Era, 1763-1790.** (3).
A study of the forces that brought on the American Revolution, the Revolution, and the founding of the Federal Union. PREREQUISITE: junior standing and History 221.
- 423. Early National Period, 1790-1850.** (3).
A study of American history from unification until the beginnings of division. PREREQUISITE: junior standing and History 221.
- 424. Civil War, 1850-1865.** (Formerly History 433). (3).
A study of division and conflict. PREREQUISITE: junior standing and History 221.
- 425. Emergence of Modern America, 1865-1914.** (Formerly History 421). (3).
A study of the United States from the end of the Civil War to the outbreak of World War I. PREREQUISITE: junior standing and History 221 and 222.

426. **Recent American History, 1914-present.** (Formerly History 422). (3).
A study of the United States from World War I to the present. PREREQUISITE: junior standing and History 221 and 222.
451. **The Medieval World.** (Formerly History 313). (3).
A study of the history of institutional forms beginning with the decline of the Roman Empire and ending with the beginnings of Renaissance life. PREREQUISITE: junior standing and History 111 and 112.
452. **The Renaissance World.** (Formerly History 451). (3).
A study of the achievements and forces, political and economic, social and cultural, creative and intellectual, which made up this fascinating foundation of modern European civilization. PREREQUISITE: junior standing and History 111 and 112.
471. **History of Mexico.** (Formerly History 475). (3).
A survey of Mexico, from independence to the present. PREREQUISITE: junior standing and History 271.
472. **History of Brazil.** (Formerly History 372). (3).
A survey of Brazil, from independence to the present. PREREQUISITE: junior standing and History 271.
481. **Intellectual and Social History of Europe, I.** (3).
Especially designed to appeal to history majors, this course considers intellectual history from the twelfth century Renaissance through the period of the Thirty Years' War. PREREQUISITE: senior standing and History 111 and 112.
482. **Intellectual and Social History of Europe, II.** (3).
Especially designed to appeal to history majors, this course considers intellectual history in the Enlightenment, the Romantic Era, and the Liberal Tradition. PREREQUISITE: senior standing and History 111 and 112.

GRADUATE COURSES IN HISTORY

(Numbers prefixed with 'G' identify courses described in the preceding section for which graduate credit is given. For description of other courses and further details of the graduate program see the Bulletin of The Graduate School.)

- G-402. **History of Russia.** (3).
G-411. **The Era of the French Revolution.** (3).
G-412. **Europe in the Nineteenth Century.** (3).
G-413. **Europe in the Twentieth Century.** (3).
G-421. **Colonial America, 1607-1763.** (3).
G-422. **Revolutionary Era, 1763-1790.** (3).
G-423. **Early National Period, 1790-1850.** (3).
G-424. **Civil War, 1850-1865.** (3).
G-425. **Emergence of Modern America, 1865-1914.** (3).
G-426. **Recent American History, 1914-present.** (3).
G-451. **The Medieval World.** (3).
G-452. **The Renaissance World.** (3).
G-471. **History of Mexico.** (3).
G-472. **History of Brazil.** (3).
G-481. **Intellectual and Social History of Europe, I.** (3).
G-482. **Intellectual and Social History of Europe, II.** (3).

- 500. Introduction to Historical Research and Writing. (3).
- 511. Studies in Ancient History. (3).
- 512. Studies in European Diplomacy (1849-1919). (3).
- 513. Studies in European Diplomacy (1919-1939). (3).
- 514. Studies in the Soviet Union and World Communism. (3).
- 515. Studies in British History Since 1485. (3).
- 521. Studies in Early American History (to 1800). (3).
- 522. Studies in the Middle Period of American History (1800-1877). (3).
- 523. Studies in Recent American History (1877-present). (3).
- 524. Studies in Southern History. (3).
- 525. Studies in Western History. (3).
- 526. Studies in Social and Intellectual History of the United States. (3).
- 527. Studies in State and Local History.
- 596. Thesis. (6).

HOME ECONOMICS

ASSISTANT PROFESSOR MARY ALMA WHITAKER, *Acting Chairman*
Room 313, Manning Hall

ASSOCIATE PROFESSOR FREEMAN

MRS. SANDS

Requirements for the major and minor in home economics are listed on page 141.

Students interested in planning a program in home economics to meet the entrance requirements established by the American Dietetics Association for postgraduate internship should consult with the department chairman.

CLOTHING AND TEXTILES

- 111. **Clothing Selection and Construction. (3).**
 Standards in selecting and purchasing; construction of cotton garments to meet individual needs.
One lecture, four laboratory hours per week.
- 211. **Clothing Construction. (3).**
 Fundamental principles of clothing construction, fitting and finishing garments to develop techniques in handling wool, silk, and synthetic fabrics. PREREQUISITE: Home Economics 111.
One lecture, four laboratory hours per week.
- 312. **Textiles. (3).**
 A study of textile fibers used for clothing and house furnishing.
Two lecture, two laboratory hours per week.
- 313. **Consumer Problems in Clothing. (3).**
 A course in clothing selection and buying for men and women with emphasis on individual needs and economic problems involved.

FOODS AND NUTRITION

- 241. **Elementary Nutrition. (3).**
 Nutritive value of food, factors influencing body food requirement and health. Open to freshmen.

- 242. Food Selection and Preparation. (3).**
Principles underlying the selection and preparation of foods with an introduction to the planning and serving of meals. Open to freshmen.
One lecture, four laboratory hours per week.
- 341. Meal Preparation and Table Service. (3).**
Nutrition fundamentals in individual and family dietaries, meal planning, marketing and table service for various occasions. **PRE-REQUISITE:** Home Economics 242.
One lecture, four laboratory hours per week.
- 342. Nutrition and Diet Therapy. (3).**
Dietary problems applicable to the prevention and treatment of diseases in which therapeutic diets are of major importance. **PRE-REQUISITES:** Home Economics 341.
Two lecture, two laboratory hours per week.
- 351. Quantity Cookery. (3).**
Practical problems in preparing and serving foods for large groups. Use of standardized recipes, calculation of food costs, and use of institution equipment. **PREREQUISITE:** Home Economics 342.
- 352. Institution and Management Practice. (3).**
Observation and practice in handling problems of organization and management of quantity food service.

HUMAN RELATIONS AND RELATED ART

- 171. Personal Development and Human Relations (3).**
Individual and group adjustment, influences contributing to successful marriage and family life. Required of home economics majors in the lower division; open to other students in the lower division.
- 181. Art in Everyday Life. (3).**
A study of the art elements and art principles through an analysis of everyday objects.
- 291. Health of the Family and Home Nursing. (3).**
Building health habits, protection against illness and accidents; simple procedures in caring for the sick. Open to freshmen.
Two lecture, two laboratory hours per week.
- 471. Child Development and Family Relationships. (3).**
Courtship, marriage, and achievement of satisfaction in present day family life; social, emotional, mental growth of the child; nursery school observation.
- 473. Nursery School Practicum. (3).**
Participation in and direction of various nursery school activities
PREREQUISITE: Home Economics 471.
One conference, five laboratory hours per week.
- 474. Nursery School Practicum. (3).**
For the student who has had or is taking Home Economics 473 and desires additional experience.
- 481. Home Furnishing and Equipment. (3).**
Principles of design and color theory applied to the selection and arrangement of the house and its furnishing; selection, use, and care of equipment.
One lecture, four laboratory hours per week.

482. Home Management and Consumer Education. (3).

Problems in management of money, time, and energy; study of consumer goods; guides to buying.

INDUSTRIAL ARTS

PROFESSOR R. J. COLTHARP, *Chairman*

Room 100, Industrial Arts Building

ASSOCIATE PROFESSOR SIMMONS

ASSISTANT PROFESSOR BROTHERTON, HIRSCHMANN, LAWRENCE,
and OGLE

MR. HAWKINS, MR. McALPIN, and MR. WHITE

MR. ADELMAN, MR. BILLINGS, MR. FLY, MR. FRAVEGA, MR. GABRIEL,
MR. GONYAW, MR. GROSSMEYER, MR. KLENKE, and MR. VAUGHAN

Requirements for the majors and minors in industrial arts are listed on page 146.

141. Introduction to Engineering. (3).

Introduction to the engineering profession, with emphasis on the slide rule and measuring instruments.

142. Interpretation of Technical Drawing. (3).

Various types of drawings as a technique of communication in the industry.

145. Surveying. (3).

Surveying practices, calculations, and use of topographical conventions. **PREREQUISITE:** Industrial Arts 141 and Industrial Arts 151.
One hour lecture, four hours laboratory.

151. Engineering Graphics. (3).

Basic drafting practices in the use of instruments, theory of projections, and working drawings.

One lecture, four laboratory hours per week.

152. Engineering Graphics. (3).

Continuation of Industrial Arts 151, including basic space relationships of points, lines, planes, and surfaces. **PREREQUISITE:** Industrial Arts 151. (Students with two years of high school drafting, or with drafting experience—upon satisfactory completion of a proficiency test—may be permitted to enroll in Industrial Arts 152).

One lecture, four laboratory hours per week.

161. Woodwork. (3).

Basic hand and machine woodworking processes.

One lecture, four laboratory hours per week.

171. Metalwork. (3).

Basic hand and machine metalworking processes.

One lecture, four laboratory hours per week.

245. Engineering Surveying. (3).

Study of construction layouts and site locations. **PREREQUISITES:** Industrial Arts 145 and Mathematics 141.

One lecture, four laboratory hours per week.

- 251. Descriptive Geometry. (3).**
Representation and space relations of points, lines, and plane intersections. PREREQUISITE: Industrial Arts 152.
One lecture, four laboratory hours per week.
- 252. Industrial Design. (3).**
Theory and application of design and principles in industry. PREREQUISITE: Industrial Arts 151.
- 253. Sheet Metal Drafting. (3).**
Theory and application of principles of lofting, including parallel line, radial, and triangulation methods of development. PREREQUISITE: Industrial Arts 251.
One lecture, four laboratory hours per week.
- 261. Finishing Methods. (3).**
Studies and practices of brush, spray, and dip procedures.
One lecture, four laboratory hours per week.
- 271. Welding. (3).**
Techniques of gas and electric arc welding. PREREQUISITE: Industrial Arts 171.
One lecture, four laboratory hours per week.
- 272. Foundry. (3).**
Study and practice of casting non-ferrous metals. PREREQUISITE: Industrial Arts 161.
One lecture, four laboratory hours per week.
- 281. Electricity. (3).**
Fundamental principles and practices of electrical circuits.
One lecture, four laboratory hours per week.
- 282. Electronics. (3).**
Study of theories and practices of electronics, as applied in the areas of communication, industry, and entertainment. PREREQUISITE:
One lecture, four laboratory hours per week.
- 291. Survey of Industrial Education. (3).**
The development, objectives, and current trends of industrial arts and vocational education; required for teaching endorsement in industrial arts. PREREQUISITES: *Two* of the following courses: Education 102, 201, 203.
- 335. Driver Education and Traffic Safety. (3).**
Study and practice in the preparation of instructional materials dealing with traffic and safety; care and upkeep of the automobile, and behind-the-wheel instruction. PREREQUISITE: Education major or minor.
Two lecture, two laboratory hours per week.
- 336. Safety Problems. (1-4).**
A. Fire Protection (1).
B. Chemical Safety (1).
C. Electrical Safety (1).
D. Traffic Safety (1).
- 341. Engineering Materials. (3).**
Study of materials.

- 342. Manufacturing Processes. (3).**
Study of manufacturing equipment and its uses.
- 345. Route Surveying. (3).**
Study of surveying practices as applied to streets, roads, and highways.
PREREQUISITE: Industrial Arts 145 and Mathematics 141.
One lecture, four laboratory hours per week.
- 351. Architectural Drawing. (3).**
Planning and executing residential preliminary and working drawings, details, and specifications. PREREQUISITE: Industrial Arts 252.
One lecture, four laboratory hours per week.
- 352. Architectural Drawing. (3).**
Continuation of Industrial Arts 351, including pictorial representations, model building, and furnishings design. PREREQUISITE: Industrial Arts 351.
One lecture, four laboratory hours per week.
- 355. Building Specifications and Estimating. (3).**
Study and practice of specifications, bidding procedures, and estimating. PREREQUISITE: Industrial Arts 351.
- 357. Machine Design. (3).**
Study and design of basic machine elements. PREREQUISITE: Industrial Arts 251.
One lecture, four laboratory hours per week.
- 359. Tool Design. (3).**
Study and design of gages, jigs, fixtures, and their applications in manufacturing processes. PREREQUISITE: Industrial Arts 342 and Industrial Arts 357.
Two hours lecture, two hours laboratory.
- 361. Machine Woodwork. (3).**
Woodworking machines with emphasis on special operations. PREREQUISITE: Industrial Arts 161.
One lecture, four laboratory hours per week.
- 362. Upholstery. (3).**
Fundamentals of upholstery. PREREQUISITE: Industrial Arts 161 or 361.
One lecture, four laboratory hours per week.
- 363. Forestry Products. (3).**
Study and testing of wood and lumber products. PREREQUISITE: Industrial Arts 341.
- 372. Maintenance. (3).**
Practices in selection and care of tools, both hand and machine. PREREQUISITE: Industrial Arts major or minor.
One lecture, four laboratory hours per week.
- 373. Metallurgy. (3).**
Study and testing of metals and metal products. PREREQUISITE: Industrial Arts 341.
- 381. Radio. (3).**
Components, circuits, and theory of the radio receiver. PREREQUISITE: Industrial Arts 282.
One lecture, four laboratory hours per week.

- 382. Television. (3).**
Circuits of the television receiver. PREREQUISITE: Industrial Arts 381.
One lecture, four laboratory hours per week.
- 433. Masonry Products. (3).**
Study of cements, concrete, stone, and clay building materials. PREREQUISITE: Industrial Arts 341.
- 434. Problems in Industrial Arts. (3).**
Study and research in a specific area. PREREQUISITE: Senior classification, or majors and minors in Industrial Arts who can offer satisfactory evidence of being qualified to benefit by the course.
- 435. Clinical Practice in Manual Arts Therapy. (6).**
Supervised clinical practice in the Physical Medicine and Rehabilitation Service at Kennedy Veterans Hospital. PREREQUISITE: Senior classification, with major in Industrial Arts Education.
- 436. Organization of the General Shop. (3).**
Study of problems dealing with the selection and organization of general shop activities. PREREQUISITE: Education 391-H.
One lecture, four laboratory hours per week.
- 437. Industrial Safety. (3).**
Study of industrial hazards and safety procedures.
- 438. Foremanship. (3).**
Study of the functions of supervisory personnel.
- 442. Production Methods. (3).**
Practice in wood and/or metal production procedures. PREREQUISITE or COREQUISITE: Industrial Arts 447.
One lecture, four laboratory hours per week.
- 447. Production Control. (3).**
Study of the elements of production and their coordination emphasized by visits to industrial plants.
- 448. Plant Layout. (3).**
Study of industrial plants, with emphasis on floor plans and placement of facilities. PREREQUISITE: Industrial Arts 151 or drafting experience.
- 449. Time and Motion Analysis. (3).**
Work simplification, including analysis of jobs and trades, as applied in time and motion. PREREQUISITE: Industrial Arts 447.
- 453. Architectural Woodwork Theory and Practice. (3).**
Study of the specialized problems of expediting architectural millwork production. PREREQUISITE: Industrial Arts 351.
- 454. Architectural Woodwork Detailing. (3).**
Study and practice of millwork detailing. PREREQUISITE: Industrial Arts 453.
One lecture, four laboratory hours per week.

GRADUATE COURSES IN INDUSTRIAL ARTS

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For further details of the graduate program see the Bulletin of The Graduate School.)

G-447. Production Control. (3).

G-448. Plant Layout. (3).

G-449. Time and Motion Analysis. (3).

ITALIAN

(See MODERN LANGUAGES)

JOURNALISM

PROFESSOR HERBERT LEE WILLIAMS, *Chairman*
Room 140, Administration Building

ASSISTANT PROFESSORS SPENCER and WESTLAND

MR. SANDERS

MR. LONG

Requirements for the major and minor in journalism are listed on page 115.

111. **Survey of Mass Communication. (3).**
Social background, scope, functions, and organization of modern communication media, with attention given to newspapers, magazines, motion pictures, radio, television, books, and comics.
112. **Introduction to Modern Journalism. (3).**
A study of the development of current techniques of writing for publication, with emphasis on the American press.
200. **Typography. (3).**
A lecture-laboratory study of the development of type and the processes of composition, engraving, stereotyping, and printing. Students are provided opportunities to practice the effective use of type and illustration in mass communication.
211. **Elementary News Writing. (3).**
A study of news story structure and the factors that determine the value of news, with consideration given to both the theoretical and practical aspects of news gathering and reporting; lecture and laboratory sessions.
212. **Reporting. (3).**
Gathering and writing news of the University community, with assignments arranged on *The Tiger Rag* or suburban newspapers, or with the University Public Information Office. PREREQUISITE: Journalism 211.
300. **Advertising Production. (3).**
Principles of typography for advertising composition and display; layout, copyfitting, and type selection in laboratory. PREREQUISITE: Journalism 200.
312. **Editing I. (3).**
Headline writing and editing practices with *The Tiger Rag* used as a laboratory.
313. **Editing II. (3).**
Concentrated practice in editing and copyreading problems. Detailed study of newspaper and magazine page makeup. PREREQUISITE: Journalism 312.
314. **Advertising Copy Writing. (3).**
The principles of advertising psychology studied in relation to the proved techniques for writing effective copy; approximately half of the course is devoted to practice in writing advertisements.

315. Advertising Sales. (3).

Practical experience in the preparation and selling of completed advertisements; the student will service his own clients throughout the semester, using *The Tiger Rag* as a space medium. PREREQUISITE: Journalism 314.

322. Advanced Reporting. (3).

Designed to develop further the complete reporter by building on foundations laid in Journalism 212; attention will be given to specialized reporting, including feature stories, sports, society, critical writing, and publicity. PREREQUISITE: Journalism 212.

325. Press Photography. (3).

Taking pictures with the news camera, developing films, making enlargements, cropping and scaling for publication. Students should bring their own cameras. Open to non-majors with permission of the department chairman.

332. Feature and Article Writing. (3).

Techniques involved in writing the feature story; study of the magazine market and the specialized requirements of periodicals to which stories are submitted; students will write and submit articles for publication in magazines and newspapers and for acceptance by syndicates.

340. Photojournalism. (3).

Selection and arrangement of illustrative material for newspapers and magazines; analysis, use and influence of the news picture; techniques of the picture story; and the role of the picture magazine in the field of communication.

360. Introduction to Radio-Television. (3).

A survey of the history of radio and television, principles of transmission and reception of signals, governmental and self-imposed regulations, and the responsibility of the broadcaster; intended to develop an awareness of the social implications of radio and television.

365. Radio News Writing and Editing. (3).

The processing of news for radio, with attention given to radio news style and practice and the preparation of special-events reporting. One lecture per week and four hours per week working in the news rooms of Memphis radio stations.

370. Television Writing. (3).

Writing scripts for telecasts of news, sports, interviews, special events, documentaries, and commercials, with special attention to the necessary studio operations.

380. The Magazine. (3).

Historical backgrounds, contents, purposes, and readership of general magazines, business and trade papers, and specialized journals, with practice in copy preparation, layout and pictorial display, and production processes.

400. Law of the Press, Radio, and Television. (3).

Origin and development of the legal principles affecting freedom of expression, and provisions of the laws of libel, slander, copyright, and other statutes limiting communication in the fields of publishing and broadcasting.

401. Writing Projects. (1 to 3).

Internship for students who have completed basic journalism courses or whose experience has prepared them to handle the duties; students will work on the staff of *The Tiger Rag* or the *DeSoto*, or work in the office of the University Public Information Office, or will do approved research in journalism.

402. Writing Projects. (1 to 3).

A continuation of Journalism 401.

411. History of Journalism. (3).

A study of the origin and development of American journalism; students who enroll in this course should have completed History 221 and 222 or the equivalent.

412. The Editorial. (3).

The work of the editor and the editorial writer, with emphasis on editorial problems, methods, policies, and style.

413. Community Newspaper Management. (3).

A survey of the economic, social, and cultural aspects of small town daily and weekly newspapers, with emphasis on the role of the editor in community life.

421. Journalism in the Secondary Schools. (3).

Organization and direction of journalism courses in the high school; financial problems of high school publications and their relation to educational objectives; public relations and preparation of news releases for school administrators. Intended primarily for those students who expect to teach journalism or to supervise publications in the high school.

440. Literature of Journalism. (3).

A bibliographical approach to the field of mass communication, consisting of critical reading of selective works. PREREQUISITE: permission of the department chairman.

450. Public Relations. (3).

The development, scope, and modern role of public relations, with emphasis on case studies, lectures, and experimentation with major public relations tools and practices.

GRADUATE COURSES IN JOURNALISM

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For further details of the graduate program see the *Bulletin of The Graduate School*.)

G-421. Journalism in the Secondary Schools. (3).**G-440. Literature of Journalism. (3).****G-450. Public Relations. (3).**

LATIN

(See CLASSICAL LANGUAGES)

LIBRARY SERVICE

(See CURRICULUM AND INSTRUCTION)

MANAGEMENT

PROFESSOR HERBERT JOHN MARKLE, *Chairman*
Room 100, *The School of Business Administration Building*

PROFESSORS CARRIER, FOX, and LARRABEE

ASSOCIATE PROFESSORS LOWRY and TAYLOR

ASSISTANT PROFESSORS BOYD, McMAHON, SHARP, and TEMPLETON

MR. EDGAR and MR. EMERSON

MRS. BERFIELD

Requirements for the major and minor in management are listed on page 129.

101. Introduction to Business. (3).

A survey course to acquaint beginning business students with the major institutions and practices in the business world, to provide the elementary concepts of business, and to act as an orientation course for selection of a specific major. Both semesters. Open to freshmen only.

271. Clerical Office Machines. (3).

Instruction and practice in the operation of the major types of adding and calculating machines; development of a working knowledge of the 10-key and full keyboard adding machine, key-driven and rotary calculators, and other mechanical office devices. Both semesters.

301. Business Law I. (3).

Nature and classification of law, contracts, negotiable instruments. Study of selected cases. Both semesters. **PREREQUISITE:** junior classification or permission of the instructor.

302. Business Law II. (3).

Business organization, personal property, trade regulations, with emphasis on case studies. Both semesters. **PREREQUISITE:** Management 301.

322. Labor Legislation. (3).

Historic and philosophic background for labor legislation with emphasis on recent legislation in the labor area and the effects of these laws on social and economic institutions. Spring semester. **PREREQUISITE:** Economics 321.

331. Real Estate. (3).

Real estate law, property description, methods of transferring property, joint ownership, tax sales and title to property, inheritance of real property. Spring semester. **PREREQUISITE:** junior classification or permission of the instructor.

335. General Insurance. (3).

Theory, practice, and problems involved with life, fire, marine, casualty, and surety insurance; rates and rating; actuarial activities. Fall semester. **PREREQUISITE:** junior classification or permission of the instructor.

- 341. Business Organization and Finance. (3).**
Promotion, organization, and financing of business enterprise; principles underlying selection of business form; structure and trends of American enterprise system; financial management; emphasis is placed on small and medium-sized enterprises. Both semesters. PREREQUISITE: Accounting 202.
- 345. Industrial Management I. (3).**
Development of scientific management; principles and mechanism of organization and management in manufacturing, including plant location and layout, mass production techniques, standardization conditions, and production controls. Spring semester. PREREQUISITE: Economics 321.
- 371. Business Statistics I. (3).**
Procedures of collection, analysis, presentation and interpretation of economic and business data. Both semesters. PREREQUISITES: Mathematics 107 or equivalent and Economics 211 and 212.
- 381. Introduction to Data Processing Systems. (formerly Management 446). (3).**
A course designed to give an introduction to the characteristics of electronic machines and their use in computation and data processing. The objective is to give the student an understanding of the machines rather than to develop the advanced technical or mathematical aspects. PREREQUISITE: Mathematics 107.
- 421. Personnel Administration. (3).**
Employer-employee relationship; job analysis; recruitment, selection, training, transfer, promotion, and dismissal of employees; industrial unrest; wage plans and policies; employee health, interest, and morale; dealing with unions. Spring semester. PREREQUISITE: Economics 321 or permission of the instructor.
- 422. Collective Bargaining. (3).**
Labor-management relations from the standpoint of collective bargaining contracts, with emphasis on the process of negotiating agreements, including procedures, tactics, and subject matter. Fall semester. PREREQUISITE: Economics 321.
- 430. Industrial Real Estate. (3).**
All phases of industrial real estate practices are covered. These include attractions to industry; financing industrial real estate; appraising industrial real estate; and selecting of industrial sites. PREREQUISITE: Management 331.
- 431. Real Estate Law. (3).**
This course covers law and legal instruments as applied to real estate and is designed to serve the needs of property owners and those engaged in the real estate business. PREREQUISITE: Management 302 and 331.
- 432. Real Estate Finance. (3).**
Examination and analysis of the sources of funds for financing all kinds of real estate transactions, including FHA and VA types. PREREQUISITE: Management 331.
- 433. Property Management. (3).**
The fundamentals of management of real estate; examination and

analysis of problems, duties, and responsibilities of the property manager. PREREQUISITE: Management 331.

434. Real Estate Appraisal. (3).

The fundamentals of appraising residential, commercial, and industrial real estate. PREREQUISITE: Management 432.

435. Property and Casualty Insurance. (3).

The forms and functions of fire, marine, automobile, general liability, and other types of property and casualty insurance with emphasis on their application to commercial and industrial occupancies. A survey of current underwriting practice. PREREQUISITE: Management 335.

436. Life and Health Insurance. (3).

The functions of life and health insurance with emphasis upon the need for insurance and the service of life and health insurance to the American family and community. A study of the mechanics of private and public insurance and annuities. PREREQUISITE: Management 335.

437. Insurance Agency Management. (3).

Organization, management, and operation of insurance sales agencies. Equal emphasis is given to the problems and practices of the company-owned and the independent agency. PREREQUISITE: Management 335.

441. Corporation Finance. (3).

Advanced treatment of financial management with emphasis on small and medium-sized enterprise and the forces underlying determination of policy; financial problems are considered in connection with re-funding, reorganization, mergers, and consolidations. Both semesters. PREREQUISITE: Management 341.

442. Management of Business Enterprise. (3).

Consideration is given to over-all policy formation and practice in the operation of new and going business concerns, with emphasis on problems of nonfinancial management in the small firm. Both semesters. PREREQUISITE: Management 341.

443. Human Relations in Business. (3).

A study of the principles of human relations as applied to business. PREREQUISITE: Management 441 or 442.

445. Industrial Management II. (3).

A course devoted to solving typical problems that arise in the planning, layout, control, operation, and administration of a manufacturing enterprise. PREREQUISITE: three of the 300 courses in this major or permission of the instructor.

447. Production Control. (Same as Industrial Arts 447). (3).

A study of the elements of production and their coordination emphasized by visits to industrial plants.

448. Plant Layout. (Same as Industrial Arts 448). (3).

Study of industrial plants, with emphasis on floor plans and placement of facilities. PREREQUISITE: permission of the instructor.

- 449. Time and Motion Analysis.** (Same as Industrial Arts 449). (3).
Work simplification, including analysis of jobs and trades, as applied in time and motion. **PREREQUISITE:** Management 447.
- 471. Business Statistics II.** (3).
Extension of the range of topics covered in Business Statistics I to include methods of correlation, analysis of variance, forecasting, and general business research. Spring semester. **PREREQUISITE:** Management 371.
- 472. Statistical Quality Control.** (3).
A course emphasizing the modern statistical approach to the control of industrial quality. Topics treated include the Shewart Control Chart for Variables and Attributes, Acceptance Sampling, and Introduction to the Design of Industrial Experiments. **PREREQUISITES:** Math 107 or 122 and Management 371.
- 481. Electronic Data Processing and Programming.** (3).
This course is concerned with programming and operation of electronic data processing equipment. Machines language and programming systems will be studied in detail including FORTRAN. Introduction will be made to computer applications to business. **PREREQUISITE:** Management 381 or permission of instructor.
- 482. Application of Computers to Modern Business.** (3).
A continuation of Management 481, stressing computer application to solution of business problems in such areas as: sales analysis, sales forecasting, accounting, personnel, inventory, management, production control, and distributive applications. Introduction will also be made to management science applications and simulation. **PREREQUISITE:** Management 371 and 481 or permission of instructor.
- 495. Management Problems.** (1 to 3).
Students will carry on approved research projects in his major area under supervision of staff members. Both semesters. **PREREQUISITE:** senior standing and permission of the department chairman.
- S-503. Law of Taxation of Estates, Inheritances, and Gifts.** (3).
A survey course of the law of taxation as applied to the transmission of property by gift or death and its impact upon accumulations of wealth. The constitutional basis, statutory implementation, administrative regulation, and court interpretation of the laws of the United States and the various states. **PREREQUISITE:** Management 302.
- S-505. Estate Planning.** (3).
Estate planning from an individual viewpoint designed to create, maintain, and distribute the maximum estate possible. Consideration is given to the aspects of law, insurance, real estate, investments, and taxes as they relate to the creation of estates by individuals and those who will be engaged in assisting others. **PREREQUISITE:** Management 503.
- S-523. Advanced Industrial Relations.** (3).
The factors which condition labor-management relations are examined; the nature and significance of labor disputes are analyzed, together with factors involved in their solution. Special attention

is given to the growing importance of labor policies and their impact upon labor-management relations and the public in general. **PREREQUISITE:** Management 421 or 422 or consent of instructor.

S-541. Analysis and Control of Business. (3).

An overall study of management problems and the application of scientific management techniques to the control of various phases of business operation. Included are general management controls, financial management controls, sales management controls, production management controls, and personnel control and appraisal. **PREREQUISITE:** Management 441 and/or 442.

S-542. Advanced Management of Business Enterprise. (3).

The development of the top management viewpoint, the basic objective being to develop executive abilities and creative thinking. Selected problem areas of modern business will be explored, alternative courses of action appraised, and decision-making ability developed. **PREREQUISITE:** Management 442 and/or 441.

S-543. Seminar in Management. (3).

Special study of selected current problems in this area. For the most part individual studies will be pursued, with group analysis and discussion at regular class meetings. **PREREQUISITE:** permission of the instructor.

GRADUATE COURSES IN MANAGEMENT

The 400 and 500 courses described in the preceding section may be taken for graduate credit. For further details of the graduate program see the Bulletin of The Graduate School.

MARKETING

PROFESSOR CHARLES ROBERT SPINDLER, *Chairman*
Room 105, The School of Business Administration Building

PROFESSOR TONNING

ASSOCIATE PROFESSORS HOUSE and SUMMER

ASSISTANT PROFESSORS LOUISE CHAPMAN and INGRAM

Requirements for the major and minor in marketing are listed on page 129.

301. Principles of Marketing. (3).

General survey of the marketing structure; development, functions, costs, institutions, and pricing policies. Both semesters. **PREREQUISITES:** Economics 211 or permission of the instructor.

312. Textiles. (Same as Home Economics 312). (3).

A study of textile fibers used for clothing and house furnishing.
Two lecture, two laboratory hours per week.

314. Advertising Copy Writing. (Same as Journalism 314). (3).

The principles of advertising psychology in relation to the proved techniques for writing effective copy; approximately half of the course is devoted to laboratory practice in writing advertisements.

- 315. Advertising Design I. (Same as Art 315). (3).**
An introductory course in the methods and techniques of advertising layout. Practical problems involving rough, presentation, and finished art work in connection with newspaper, magazine, and direct-mail advertising.
Two lecture, two laboratory hours per week.
- 316. Advertising Design II. (Same as Art 316). (3).**
A continuation of Advertising Design I.
Two lecture, two laboratory hours per week.
- 321. Marketing Farm Products. (3).**
Functional, commodity, and institutional problems concerned with marketing farm products including the roles of farmers, cooperatives, government, and food processing industries; and the roles of wholesalers and retailers of food products in getting these products to the ultimate consumer. Spring semester. PREREQUISITE: Marketing 301.
- 351. Principles of Advertising. (3).**
General survey of the field of advertising including agencies, media, layout, typography, and copy. Both semesters. PREREQUISITE: Marketing 301 or permission of the instructor.
- 352. Advanced Advertising. (3).**
A study of the various phases of advertising with practical applications of advertising methods and procedures. Both semesters. PREREQUISITE: Marketing 351.
- 358. Advertising Law and Business Ethics. (3).**
Federal, state, and municipal laws and ordinances affecting advertising; self-regulation by business; review of origin and development of advertising clubs, better business bureaus, and trade and professional organizations.
- 361. Salesmanship. (3).**
Basic principles underlying the sales process with actual sales demonstrations and projects in selling. Both semesters. PREREQUISITE: Economics 211.
- 362. Sales Theory and Techniques. (3).**
Survey of the literature on salesmanship; creative thinking sessions; portfolio preparation; and demonstrations of "role playing" in the selling function. Spring semester. PREREQUISITE: Marketing 361.
- 366. Sales Promotion. (3).**
A study of promotional methods used at the various marketing levels, including planning, media, publicity, displays, contests, and other sales promotion aids. Fall semester. PREREQUISITE: Marketing 361 or permission of the instructor.
- 381. Principles of Retailing. (3).**
Fundamental principles underlying the successful operation of a retail business. Both semesters. PREREQUISITE: Marketing 301.
- 382. Buying and Pricing. (3).**
A study of the problems confronting retailers, wholesalers, and other middlemen in properly estimating customer demand; ascertaining

sources of supply; negotiating price and terms with resource; and pricing for resale. Both semesters. PREREQUISITE: Marketing 381.

401. Marketing Administration. (3).

A case study of actual business marketing problems and the techniques used to solve them. Both semesters. PREREQUISITE: Marketing 301.

420. Physical Distribution. (3).

A study of the areas of business responsible for the movement of raw materials and finished products and the development and evaluation of movement systems. Fall semester. PREREQUISITE: Marketing 301.

421. Wholesale-Industrial Marketing. (3).

A study of problems and policies of wholesale and industrial organizations related to their marketing efforts with emphasis on channels of distribution. Fall semester. PREREQUISITE: Marketing 401.

422. Purchasing. (3).

A study of the organization, principles, policies, procedures and techniques used in effective and efficient procurement by business and industry. Spring semester.

425. Product Planning. (3).

Study of a product from the idea stage to placement of the product satisfactorily in the market place. Spring semester. PREREQUISITE: Marketing 401.

428. International Marketing. (3).

A study of the bases and promotion of foreign trade; international marketing organizations and methods; technical and financial features of international marketing. Fall semester.

435. Cotton Marketing. (3).

Cotton as a special commodity is traced through the stages of production, processing, and marketing in the raw state; spinning and weaving or knitting; finishing; fabrication; and distribution at the wholesale and retail levels. Fall semester. PREREQUISITE: Marketing 401 or permission of the instructor.

454. Industrial Advertising. (3).

A study of advertising procedures and techniques which are especially useful to production industry; primary emphasis is placed upon trade papers and catalogs. Spring semester. PREREQUISITE: Marketing 352.

455. Television and Radio Advertising. (3).

A study of the structure of the commercial broadcasting systems of this country; methods of creating radio and television programs and commercials; campaign and broadcast management; media research. Fall semester. PREREQUISITE: Marketing 352 or permission of the instructor.

456. Retail Advertising, Display and Promotion. (3).

A study of advertising procedures and techniques which are especially valuable to the retailer; techniques of display and promotion. Fall semester. PREREQUISITE: Marketing 382.

458. Advertising Agency Management. (3).

A study of the organization and activities of advertising agencies including management responsibilities, time and space buying, media selection, account executive activities, advertising research, creativity, merchandising, and production supervision. PREREQUISITE: Marketing 454 or permission of the instructor.

461. Sales Management. (3).

Problems confronting the sales executive, including control and management of the sales force. Fall semester. PREREQUISITE: Marketing 361.

462. Sales Supervision and Training. (3).

A balanced study of two sales management problem areas—sales training techniques and field sales supervision. Textbooks and trade literature are surveyed and compared with practice in current usage. Spring semester. PREREQUISITE: Marketing 461.

481. Home Furnishing and Equipment. (Same as Home Economics 481). (3).

Principles of design and color theory applied to the selection and arrangement of the house and its furnishing.

One lecture, four laboratory hours per week.

482. Retail Policies and Problems. (3).

A study of the problems which retailers are currently facing and an analysis of the policy decisions they must make to meet these problems effectively. Spring semester. PREREQUISITES: Marketing 381, 382.

485. Credit and Collections. (3).

System of credit and collections employed today, significance of credit information, management of charge accounts and credit, and collection correspondence. Spring semester. PREREQUISITE: Marketing 301.

491. Marketing Research. (3).

Research methods and procedures used in the field of marketing to help solve marketing problems. Spring semester. PREREQUISITES: Marketing 401, Management 371.

495. Problems in Marketing. (1 to 3).

Students will carry on approved research projects in his major area under supervision of staff members. Both semesters. PREREQUISITE: senior standing and permission of the department chairman.

499. A. Work Experience in Advertising. (3 to 6).**B. Work Experience in Physical Distribution. (3 to 6).****C. Work Experience in Retail Management. (3 to 6).****D. Work Experience in Sales. (3 to 6).****E. Work Experience in Wholesale-Industrial Marketing. (3 to 6).**

Seniors majoring in marketing may, after receiving approval of the department chairman and professor concerned, obtain actual experience by working a minimum of 200 hours in approved organizations. Both semesters.

(The following are graduate courses for which undergraduates within 36 semester hours of graduation may enroll.)

S-502. Marketing Management. (3).

A study of policy determination and functions of the senior marketing executive with reference to delegation of authority; responsibilities of line and staff personnel; planning for growth; and interpreting marketing trends.

S-521. Pricing and Price Policies. (3).

An examination of the role of price in our economy; the problem of price making under conditions of competition, monopoly, monopolistic competition, and the like, with emphasis on the problems of nonprice competition.

S-531. Seminar in Marketing. (3).

Special study of current problems in marketing. For the most part, individual studies will be pursued with group analysis and discussion. PREREQUISITE: consent of instructor.

S-541. Marketing Thought. (3).

An introduction to the concepts and theories advanced in the development of institutions, channels, functions and processes of marketing and the contribution of other disciplines to marketing theory. PREREQUISITE: consent of instructor.

S-592. Applied Marketing Research. (3).

Development and application of research procedures to actual business problems. PREREQUISITE: Marketing 491 or permission of the instructor.

GRADUATE COURSES IN MARKETING

(Numbers prefixed with "G" identify undergraduate courses described in the preceding section for which graduate credit may be given. For further details of the graduate program see the Bulletin of The Graduate School.)

G-401. Marketing Administration. (3).

G-421. Wholesale-Industrial Marketing. (3).

G-422. Purchasing. (3).

G-425. Product Planning. (3).

G-428. International Marketing. (3).

G-435. Cotton Marketing. (3).

G-454. Industrial Marketing. (3).

G-455. Television and Radio Advertising. (3).

G-456. Retail Advertising, Display and Promotion. (3).

G-458. Advertising Agency Management. (3).

G-461. Sales Management. (3).

G-462. Sales Supervision and Training. (3).

G-482. Retail Policies and Problems. (3).

G-485. Credit and Collections. (3).

G-491. Marketing Research. (3).

502. Marketing Management. (3).

521. Pricing and Price Policies. (3).

531. Seminar in Marketing. (3).

541. Marketing Thought. (3).

591. Problems in Marketing. (1 to 6).

592. Applied Marketing Research. (3).

MATHEMATICS

PROFESSOR HOWARD S. KALTENBORN, *Chairman*
Room 300, *Administration Building*

ASSOCIATE PROFESSORS ANDERSON, JACOBS, MCBRIDE,
STEPHENS, and WALKER

ASSISTANT PROFESSORS BETHANY, KALTENBORN, POOLE, POTTER,
REEVES, and STREET

MR. DAY, MR. FARRIMOND, MR. FOSTER, MR. HEEN, MR. MCEACHERN,
MR. McMILLAN, MR. MOSLEY, MR. PARRY, MR. PREWITT,
MR. SARCHET, and MR. WINFREY

Requirements for the major and minor in mathematics are listed on page 116. Mathematics requirements in various schools of the University may be satisfied as follows:

To fulfill the science requirement for the bachelor's degree in The School of Arts and Sciences: At least 6 semester hours in mathematics courses numbered above 121.

To fulfill the requirement for the bachelor's degree in The School of Business Administration: Mathematics 107 or a higher-numbered mathematics course.

Mathematics requirements for the bachelor's degree in The School of Education and for teacher certification are listed on page 138.

91. **Basic Mathematics. No credit.**
Fundamental operations of arithmetic and algebra; exponents and logarithms; factoring, fractions; linear equations; verbal problems.
101. **Structure of the Number System. (3).**
Elements of set theory; the whole numbers; numeration systems, additional operations; positive rational numbers; introduction of negative rational numbers; elementary number theory; decimals and the real numbers.
102. **Structure of the Number System. (3).**
A continuation of Mathematics 101. **PREREQUISITE:** Mathematics 101.
107. **Mathematics for Business. (3).**
Fundamental concepts of arithmetic and algebra; linear functions and graphs; linear systems; percent; linear programming; matrices.
122. **Basic Mathematics. (3).**
Exponents; fractions; linear and quadratic functions and graphs; quadratic equations and systems; progressions; interest; binomial theorem; permutations and combinations; probability. **PREREQUISITE:** Two units of high school algebra or geometry.
141. **College Algebra and Trigonometry. (3).**
Axioms for numbers; inequalities; circle relations; trigonometric identities and graphs; polynomials; systems of equations; inverse trigonometric and exponential functions; complex numbers. **PREREQUISITE:** Three units of high school algebra and geometry, or Mathematics 122.

- 211. Analytic Geometry and Calculus. (5).**
Essentials of analytic geometry with an introduction to calculus, including the nature of derivatives, differentiation of algebraic functions and elementary applications. PREREQUISITE: $3\frac{1}{2}$ units in high school algebra, geometry and 12th grade mathematics, or Mathematics 141.
- 212. Calculus. (5).**
Differentiation of transcendental functions; differentials; applications of differentiation; definite integral; technique of integration. PREREQUISITE: Mathematics 211.
- 213. Calculus. (5).**
Continuation of Mathematics 212. Applications of definite integral; power series; partial differentiation; multiple integrals. PREREQUISITE: Mathematics 212.
- 221. Elementary Statistics. (3).**
Basic statistical concepts; elementary probability theory; normal curve and applications; linear, multiple and partial correlation; statistical inference. PREREQUISITE: Mathematics 122 or 141, or Management 371.
- 231. Mathematics of Finance. (3).**
Compound interest and annuities, with applications; introduction to mathematics of life insurance. PREREQUISITE: Mathematics 122 or 141.
- 322. Applied Statistics. (3).**
Methods of analysis; sampling; runs; tests of hypotheses concerning mean, variance and randomness; quality control; confidence intervals; chi-square test; applied problems. PREREQUISITE: Mathematics 221.
- 331. Probability. (3).**
Classical probability theory; stochastic variables; joint distributions; probability density functions; limit theorems; practical applications. CO-REQUISITE: Mathematics 312. Offered in 1964-65 and alternate years.
- 341. Linear Algebra and Matrix Theory. (3).**
Vector spaces, linear transformations and matrices, sets of linear transformations. PREREQUISITE: Mathematics 312. Offered in 1963-64 and alternate years.
- 342. Linear Algebra and Matrix Theory. (3).**
Bilinear and quadratic forms, characteristic values and vectors of linear transformations, canonical forms of matrices. PREREQUISITE: Mathematics 341. Offered in 1963-64 and alternate years.
- 351. Foundations of Mathematics. (3).**
Euclidean and non-Euclidean geometries viewed from an historical perspective and as purely hypothetical-deductive systems; the modern mathematical method; miscellaneous problems. PREREQUISITE: Mathematics 312.
- 352. Foundations of Mathematics. (3).**
A continuation of Mathematics 351. Algebraic structures; set theory; development of real and complex numbers; calculus of propositions. PREREQUISITE: Mathematics 351.

- 361. Introduction to Topology. (3).**
Introductory set theory; metric spaces; topological spaces; mappings; Hausdorff spaces; connectedness and compactness. **PREREQUISITE:** Mathematics 213.
- 371. Programming for Digital Computers. (3).**
Computer organization and characteristics, machine language coding, mathematical subroutines, symbolic coding; applications to root approximation, curve fitting, interpolation techniques, numerical differentiation and integration. **PREREQUISITE:** Mathematics 212.
- 372. Programming for Digital Computers. (3).**
A continuation of Mathematics 371; numerical methods for solving applied problems in calculus and differential equations. **PREREQUISITES:** Mathematics 371 and 411.
- 411. Applied Mathematics. (3).**
Differential equations with applications. **PREREQUISITE:** Mathematics 312.
- 412. Applied Mathematics. (3).**
Elliptic integrals; Gamma and Beta functions; Bessel functions; Fourier series; Laplace transform. **PREREQUISITE:** Mathematics 411.
- 421. History of Mathematics. (3).**
The development of mathematics from the earliest times to the present; problem studies; parallel reading and class reports. **PREREQUISITE:** Mathematics 351. Offered in 1963-64 and alternate years.
- 422. Theory of Numbers. (3).**
Number theoretic functions; congruences; quadratic residues; Diophantine equations; continued fractions. **PREREQUISITE:** Mathematics 352. Offered in 1964-65 and alternate years.
- 423. Theory of Numbers. (3).**
Quadratic reciprocity; Farey fractions; the distribution of prime numbers; algebraic numbers. **PREREQUISITE:** Mathematics 422. Offered in 1964-65 and alternate years.
- 441. Algebraic Theory. (3).**
Theory of groups, rings and fields, with applications. **PREREQUISITE:** Mathematics 352. Offered in 1964-65 and alternate years.
- 461. Geometric Theory. (3).**
Foundations of geometry; extensions of Euclidean geometry; non-Euclidean geometry; introduction to projective geometry. **PREREQUISITE:** Mathematics 352. Offered in 1963-64 and alternate years.
- 481. Real Analysis. (3).**
The real number system; limits; sequences and functions; continuity; derivatives; mean value theorems; integration. **PREREQUISITE:** Mathematics 312, 352. Offered in 1965-66 and alternate years.
- 482. Real Analysis. (3).**
Convergence of series; power series; functions of several variables; mappings; partial derivatives; iterated integrals; improper integrals. **PREREQUISITE:** Mathematics 481. Offered in 1965-66 and alternate years.

- 491. Complex Analysis. (3).**
The complex plane; linear and conformal mappings; analytic functions; complex integration. PREREQUISITE: 312, 352. Offered in 1964-65 and alternate years.
- 495. Undergraduate Mathematics Seminar. (1).**
Readings and discussion of Mathematical topics of current interest. PREREQUISITE: permission of the instructor.
- 496. Undergraduate Mathematics Seminar. (1).**
Readings and discussion of mathematical topics of current interest. PREREQUISITE: permission of the instructor.
- S502-I. Contemporary Mathematics for High School Science Teachers. (3).**
A comprehensive review and study of the fundamental principles of arithmetic, algebra, and geometry, with emphasis on applications in biology, chemistry, and physics. *This course will not satisfy any part of the requirement for a graduate minor in mathematics.*
- S503-I. Contemporary Mathematics for High School Science Teachers. (3).**
A continuation of mathematics S-502; basic formulas and processes of trigonometry, analytic geometry and elementary calculus, with applications in chemistry and physics. *This course will not satisfy any part of the requirements for a graduate minor in mathematics.*

GRADUATE COURSES IN MATHEMATICS

- G-421. History of Mathematics. (3).**
- G-422. Theory of Numbers. (3).**
- G-423. Theory of Numbers. (3).**
- G-441. Algebraic Theory. (3).**
- G-461. Geometric Theory. (3).**
- G-481. Real Analysis. (3).**
- G-482. Real Analysis. (3).**
- G-491. Complex Analysis. (3).**
- 501. Introduction to Modern Mathematics. (3).**
- 502. Contemporary Mathematics for High School Science Teachers. (3).**
- 503. Contemporary Mathematics for High School Science Teachers. (3).**
- 511. Modern Algebra for High School Teachers. (3).**
- 512. Modern Geometry for High School Teachers. (3).**
- 521. Seminar in the Teaching of Algebra. (1).**
- 522. Seminar in the Teaching of Geometry. (1).**
- 531. Workshop in Junior High School Mathematics. (2).**
- 532. Workshop in Junior High School Mathematics. (2).**
- 541. Workshop in Senior High School Mathematics. (2).**
- 542. Workshop in Senior High School Mathematics. (2).**

MODERN LANGUAGES

ASSOCIATE PROFESSOR CHARLES E. LONG, *Chairman*
Room 206, Jones Hall

PROFESSOR HEATHERLY

ASSOCIATE PROFESSORS BROWN, PARKINSON, PELL, and RATIU

ASSISTANT PROFESSORS BREWER and TERNAY

MR. DAILEY, MRS. PULLEN, and MR. SMYTHE

MRS. BILES, MRS. BUELL, MRS. DEUTSCH, MR. GAVILONDO,
RABBI GOLDMAN, MRS. HORTON, MRS. MILLER, MISS VEDRINE,
MRS. VOLKOVA

The Department of Modern Languages offers majors and minors in French, German, and Spanish; requirements are listed on page 116.

Details of the specific requirements in foreign languages for the various degrees offered by the University are explained on page 105.

FRENCH

IMPORTANT NOTE: *All students enrolled in an elementary course in French (111, 112) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for French Drill Class 111 or 112, which requires one scheduled hour each week with a foreign assistant and one unscheduled hour in the laboratory.*

111. Elementary French. (3).

Elements of grammar and pronunciation, elementary conversation, and the reading of simple selections.

112. Elementary French. (3).

A continuation of French 111, completing the study of elementary French grammar, elementary conversation and the reading of simple French texts such as *Le Petit Prince* by St. Exupéry.

211. Intermediate French. (3).

A review of French grammar with composition, conversation, and the reading of French short stories, designed to increase the student's vocabulary and to contribute to his mastery of idiomatic constructions.

212. Intermediate French. (3).

A continuation of French 211, with greater emphasis on accuracy in oral and written expression and reading for comprehension.

271. French Drama Workshop. (1).

Students in this course will work through and produce scenes from well-known French plays, emphasizing good diction and sentence rhythm. **PREREQUISITE:** Permission of department chairman. *Credit in this course will not apply toward a major or minor in modern languages, nor will it satisfy any part of the foreign language requirement for graduation.*

311. **Survey of French Literature. (3).**
Introduction to the civilization of France through lectures and the reading of representative literary works and writers from the beginnings through the eighteenth century.
312. **Survey of French Literature. (3).**
A continuation of the study of French civilization through lectures and reading of representative works of the major writers in the nineteenth and twentieth centuries.
321. **Conversation and Composition. (3).**
A review of grammatical principles and their application in speaking and writing.
322. **Conversation and Composition. (3).**
A continuation of French 321.
331. **The Seventeenth Century. (3).**
A study of the underlying principles of French Classicism in general and of the theatre in particular, with emphasis on works of Corneille, Molière, and Racine and their relationship to the critical theories of Boileau.
332. **The Seventeenth Century. (3).**
A study of the representative works in the classical genres, emphasizing the later masterpieces of Molière and Racine, and selected works of Mme. de La Fayette, La Fontaine, Mme. de Sévigné, La Bruyère, and La Rochefoucauld.
411. **The Modern French Novel. (3).**
The French novel from the Revolution to the twentieth century, treating the movements of Romanticism, Realism, and Naturalism as they are reflected in the works of such authors as Balzac, Stendhal, Flaubert, and Zola.
412. **The Contemporary French Novel. (3).**
A general survey of the twentieth-century French novel, treating the works of such authors as Proust, Gide, Mauriac, Malraux, Sartre, Camus, Maurois, and others.
421. **The Modern French Drama. (3).**
French drama from 1800 to 1870, including such authors as Hugo, de Vigny, de Musset, Scribe, Augier, and Dumas *fil.*
422. **The Contemporary French Drama. (3).**
From Bècque and his school, the *Théâtre Libre*, and Rostand to the present, with emphasis on the twentieth century drama and such playwrights as Pagnol, Claudel, Tristan Bernard, Giraudoux, Anouilh, Montherlant, Camus, Sartre, Cocteau, and others.
441. **The Eighteenth Century. (3).**
The novel from Lesage through the eighteenth century and the drama from Lesage through the theatre of Beaumarchais.
442. **Liberal Ideas in the Eighteenth Century. (3).**
Study of philosophical thought from the revocation of the Edict of Nantes to the French Revolution, with attention given to Bayle, Montesquieu, Voltaire, Diderot, and Rousseau.

451. Nineteenth-Century Poetry. (3).

French poetry from Chenier through the Parnassians and the Symbolists.

GERMAN

IMPORTANT NOTE: *All students enrolled in an elementary course in German (111, 112) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for German Drill Class 111 or 112, which requires one scheduled hour each week with a foreign assistant and one unscheduled hour in the laboratory.*

111. Elementary German. (3).

Extensive drill in pronunciation, elementary conversation, and aural understanding, and in translating the oral and written language.

112. Elementary German. (3).

A continuation of German 111 devoted to further extensive drill in the fundamentals.

211. Intermediate German. (3).

A comprehensive review of German grammar, with readings and exercises designed to increase the student's vocabulary, contribute to his mastery of idiomatic constructions, and introduce him to German literature.

212. Intermediate German. (3).

A continuation of German 211, with further reading in German literature designed to enlarge the student's vocabulary and improve his pronunciation.

222. Scientific German. (Formerly German 322). (3).

Readings in medical and scientific German. **PREREQUISITE:** German 211.

271. German Drama Workshop. (1).

Students in this course will work through and produce scenes from well-known German plays, emphasizing good diction and sentence rhythm. **PREREQUISITE:** Permission of department chairman. *Credit in this course will not apply toward a major or minor in modern languages, nor will it satisfy any part of the foreign language requirement for graduation.*

311. Survey of German Literature. (3).

A survey of German literature from the beginnings to the Reformation.

312. Survey of German Literature. (3).

A continuation of German 311, from the Reformation to the early Classicists.

331. German Conversation. (Formerly German 421).

Conversations devoted chiefly to material dealing with modern Germany.

332. German Composition and Advanced Grammar. (3).

Translation of English prose into German, with attention given, when necessary, to difficult points of grammar.

353. Nineteenth-Century Prose. (3).

The shorter works of Tieck, Arnim, Kleist, Eichendorff, Meyer, and others.

- 354. Nineteenth-Century Poetry. (3).**
Poetic works of Klopstock, Novalis, Heine, Uhland, and others.
- 355. Nineteenth-Century Drama. (3).**
Selected plays of Kleist, Grillparzer, and Hebbel.
- 411. The Classical Period. (3).**
Selected plays by Lessing and Schiller, with lectures on the historical, literary, and philosophical backgrounds.
- 412. The Classical Period. (3).**
The major plays and certain prose works of the young Goethe read and discussed in the light of the age and of the author's development.
- 451. Contemporary Prose and Poetry. (3).**
Analysis and discussion of the short stories of Hauptmann, Mann, Schnitzler, Kafka, and others; and the lyrics of Hofmannsthal, Rilke, George, Benn, and others.
- 452. Contemporary Drama. (3).**
Analysis and discussion of plays by Hauptmann, Toller, Kaiser, Paul Ernst, and others.

HEBREW

IMPORTANT NOTE: Courses in Hebrew are offered for elective credit only and will not satisfy any part of the foreign language requirement for the baccalaureate degree. Credit will be allowed for a single semester.

- 111. Elementary Hebrew. (3).**
An introduction to the Semitic family of languages through Hebrew; the Hebrew alphabet, synthetic morphology in word structure, simple syntax, introduction to composition, reading and writing in Hebrew script.
- 112. Elementary Hebrew. (3).**
Conjugation of simple verbs, the active and passive voices, introductory conversation, composition, and the Hebrew short story.
- 211. Advanced Hebrew Composition. (3).**
Reading of Modern Israeli poetry and the Hebrew novel. Selected readings from the wisdom literature of the Bible: The Book of Proverbs, the Book of Job, the Book of Ecclesiastes. Readings from the Israeli daily press. Conversational Hebrew. **PREREQUISITE:** Hebrew 112 or its equivalent.
- 212. Advanced Hebrew Composition. (3).**
Further readings in a survey of Biblical and post-Biblical Hebrew literature. Readings from the prophets: Isaiah, Jeremiah, Ezekiel. Advanced conversational Hebrew. Israelology. Study of the ancient and modern customs and mores of the inhabitants of the land of Israel. The Hebrew Calendar. **PREREQUISITE:** Hebrew 211 or its equivalent.

ITALIAN

IMPORTANT NOTE: All students enrolled in an elementary course in Italian (111, 112) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for Italian Drill Class 111 or 112,

which requires one scheduled hour each week with a foreign assistant and one unscheduled hour in the laboratory.

111. Elementary Italian. (3).

Elements of grammar and pronunciation, elementary conversation, and the reading of simple selections.

112. Elementary Italian. (3).

A continuation of Italian 111, completing the study of elementary Italian grammar, elementary conversation, and the reading of simple texts.

RUSSIAN

IMPORTANT NOTE: All students enrolled in an elementary course in Russian (111, 112), must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for Russian Drill Class 111 or 112, which requires one scheduled hour each week with a foreign assistant and one unscheduled hour in the laboratory.

111. Elementary Russian. (3).

Extensive drill in the principles of grammar with practice in pronunciation, elementary conversation and aural understanding, and translation.

112. Elementary Russian. (3).

A continuation of Russian 111, devoted to further extensive drill in the fundamentals.

211. Intermediate Russian. (3).

A comprehensive review of Russian grammar, with readings and exercises designed to increase the student's vocabulary, contribute to his mastery of idiomatic constructions, and introduce him to Russian literature.

212. Intermediate Russian. (3).

A continuation of Russian 211, with further reading in Russian literature designed to enlarge the student's vocabulary and improve his pronunciation.

SPANISH

IMPORTANT NOTE: All students enrolled in an elementary course in Spanish (111, 112) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for Spanish Drill Class 111 or 112, which requires one scheduled hour each week with a foreign assistant and one unscheduled hour in the laboratory.

111. Elementary Spanish. (3).

Extensive drill in the principles of grammar, with exercises in pronunciation, elementary conversation and aural understanding, and translation of the oral and written language.

112. Elementary Spanish. (3).

A continuation of Spanish 111, with further extensive drill in the fundamentals.

- 211. Intermediate Spanish. (3).**
A comprehensive review of Spanish grammar, with readings and exercises designed to increase the student's vocabulary, contribute to his mastery of idiomatic constructions, and introduce him to Hispanic literature.
- 212. Intermediate Spanish. (3).**
A continuation of Spanish 211, with further reading in Hispanic literature designed to enlarge the student's vocabulary and improve his pronunciation.
- 271. Spanish Drama Workshop. (1).**
A student in this course will work through and produce scenes from well-known Spanish plays, emphasizing good diction and sentence rhythm. **PREREQUISITE:** Permission of department chairman. *Credit in this course will not apply toward a major or minor in modern languages, nor will it satisfy any part of the foreign language requirement for graduation.*
- 311. Survey of Spanish Literature. (3).**
Formation of the Spanish language and literature, with readings of representative works to illustrate principal periods and genres from the beginnings to 1700.
- 312. Survey of Spanish Literature. (3).**
A continuation of Spanish 311, covering Neoclassicism, Romanticism, *costumbrismo*, Realism, Naturalism, contemporary literature, and present trends.
- 321. Advanced Composition and Conversation. (3).**
Oral practice on common expressions, followed by written composition and oral discussion on themes pertinent to Hispanic life and literature.
- 322. Advanced Composition and Conversation. (3).**
A continuation of Spanish 321, with emphasis on written composition and oral reports on topics related to contemporary Hispanic literary and political affairs. **PREREQUISITE:** Spanish 321, or permission of the instructor.
- 341. Survey of Spanish-American Literature. (3).**
A survey of Spanish-American literature from the Colonial Period to the end of the period of Romanticism.
- 342. Survey of Spanish-American Literature. (3).**
A survey of Spanish-American literature from the beginnings of Modernism to the present.
- 412. Contemporary Spanish Prose. (3).**
A detailed study of *costumbrismo*, the novel of Realism and Naturalism, and the prose of the Generation of 1898 and after. **PREREQUISITES:** Spanish 311 and 312, or permission of the instructor.
- 413. Contemporary Spanish Poetry and Drama. (3).**
A detailed study of Spanish poetry and drama of the nineteenth and twentieth centuries. **PREREQUISITES:** Spanish 311 and 312, or permission of the instructor.

415. The Golden Age. (3).

A detailed study of Spanish lyric poetry and drama up to 1700. **PREREQUISITES:** Spanish 311 and 312, or permission of the instructor.

416. The Golden Age. (3).

A detailed study of Spanish prose up to 1700. **PREREQUISITES:** Spanish 311 and 312, or permission of the instructor.

421. Spanish-American Drama, Poetry, and Essay. (3).

A critical study of the development of the drama and poetry of Spanish-America in comparison with and in contrast to the drama and poetry of Spain, and a study of the Spanish-American essay in its political and sociological as well as its literary aspects.

422. Spanish-American Short Story. (3).

A critical analysis of Spanish-American short stories as they reflect predominant social and ethical problems, and the authors' responses to literary influences from Europe and North America.

423. Spanish-American Novel. (3).

A critical study of representative works by such novelists as Fernández de Lizardi, Blest Gana, Isaacs, and Guiraldes.

MUSIC

PROFESSOR GEORGE JONES HARRIS, *Chairman*
Room 278, Administration Building

PROFESSOR EAHEART

ASSOCIATE PROFESSORS SMIT and WADE

ASSISTANT PROFESSORS FERGUSON, LABOUNTY, and LUBRANI

MISS CHAN and MR. FROCK

MR. ASHCRAFT, MRS. COBB, MR. GILBERT, MR. HALE, MR. KIRKHAM,
MRS. MAXWELL, MRS. TAYLOR, MR. TERRY,
and MR. VERGOS

Requirements for the major and minor in music are listed on page 117; the program for the Bachelor of Music degree is outlined on page 110. Requirements for the major and minor in music education are listed on page 141.

PIANO PROFICIENCY. *All music majors in all degree programs must demonstrate proficiency in piano. This may be done in either of two ways: (1) by acquiring four semester hours of credit in piano in either class or individual instruction, or (2) by passing without credit a proficiency examination in piano based on the level of study described in Music Education 131—Class Instruction in Piano. Students are expected to arrange with the chairman of the department for a time to take the examination during their first semester of residence.*

I. THEORY, COMPOSITION, HISTORY, and LITERATURE

110. Introduction to Music. (4).

A bilateral approach to music through (1) a general study of the history of music with emphasis on cultural backgrounds and (2) train-

ing in the aural and visual aspects of scales, intervals, and rhythmic patterns.

Three lecture, two laboratory hours per week.

IMPORTANT NOTE: *Students registering for any of the following four theory courses must schedule both the A and B sections; together these sections constitute a correlated study of the rudiments of music, including harmony, counterpoint, homophonic forms, sight-singing, and ear-training.*

111A. Music Theory I. (3).

Traditional harmony including major and minor scales and triads in all positions in four-part writing. **PREREQUISITES:** Music 110 and Music Education 128, or equivalent ability.

111B. Aural Music Theory I. (1).

Sight-singing and ear-training using the unison material studied in Music 111A; keyboard harmony. **COREQUISITE:** Music 111A.

Two laboratory hours per week.

112A. Music Theory I. (3).

Continuation of Music 111A up to and including the dominant seventh chord; non-chordal tones; two-part counterpoint; harmonic analysis.

112B. Aural Music Theory I. (1).

Continuation of Music 111B with more difficult unison and easier two-, three-, and four-part material correlated with Music 112A. **COREQUISITE:** Music 112A.

Two laboratory hours per week.

211A. Music Theory II. (3).

Continuation of Music 112A with attention to secondary seventh chords; modulation to related keys; instrumental style.

211B. Aural Music Theory II. (1).

Continuation of Music 112B with classwork correlated with Music 211A. **COREQUISITE:** Music 211A.

Two laboratory hours per week.

212A. Music Theory II. (3).

Continuation of Music 211A with introduction of altered and highly dissonant chord material; advanced modulation.

212B. Aural Music Theory II. (1).

Continuation of Music 211B with classwork correlated with Music 212A. **COREQUISITE:** Music 212A.

301. Counterpoint. (3).

A study of the modal contrapuntal technique of the sixteenth century; writing in two and three parts in the style of Palestrina and Lassus; analysis. **PREREQUISITES:** Music 112A and 112B.

302. Canon and Fugue. (2).

A study of contrapuntal techniques and the fundamentals of canonic writing; invention, chorale elaboration, two-part canon; analysis of works in contrapuntal style of the eighteenth century. **PREREQUISITE:** Music 301. (*Individual instruction with added fees as for applied music.*)

303. Canon and Fugue. (2).

Multiple-voiced canons; study and writing of the fugue as a form and

a style in various media; analysis of contrapuntal literature. **PREREQUISITE:** Music 302. (*Individual instruction with added fees as for applied music.*)

305. Composition. (2).

Free composition in the smaller forms for piano, voice, and chorus; a study of style and analysis of master works. **PREREQUISITE:** instructor's permission. (*Individual instruction with added fees as for applied music.*)

306. Composition. (2).

Free composition in the smaller forms and sonatina form for piano, voice, chorus, and small ensembles; style and analysis. **PREREQUISITE:** Music 305 and permission of the instructor. (*Individual instruction with added fees as for applied music.*)

308. Form and Analysis. (3).

A study of the basic principles underlying the formal structure of music; analyses of outstanding examples of the suite, sonata, and symphony. **PREREQUISITES:** Music 112A and 112B.

315. Instrumentation. (3).

A study of the compass, possibilities, and tonal characteristics of orchestral and band instruments; arranging of various types of compositions for string, woodwind, and brass ensembles; arranging of piano, organ, and choral compositions for full orchestra; transcriptions of selected works for band. **PREREQUISITES:** Music 112A and 112B.

316. Choral Conducting. (3). (Formerly Music 417).

Fundamentals of conducting; organizing and developing choral groups at all levels; rehearsal procedures; materials. **PREREQUISITES:** Music 112A and 112B.

317. Conducting and Score Reading. (3).

Conducting in both choral and instrumental fields; individual practice with the opportunity for each student to conduct choral and instrumental groups. **PREREQUISITE:** Music 316.

319. Music Appreciation. (3).

An introduction to music through a study of its literature and history; significant compositions are oriented to their proper social, cultural, economic, and political settings in order to bring about the most effective understanding and enjoyment of the music. Open without prerequisite to non-music majors of junior and senior standing.

401. History of Music to 1600. (3).

A study of the development of the significant musical styles with special attention to the individual contributions of the major composers. **PREREQUISITE:** permission of the instructor.

402. History of Music since 1600. (3).

A continuation of Music 401. **PREREQUISITE:** permission of the instructor.

405. Composition II. (2).

Determination of individual style through practical application of contemporary compositional techniques; free composition in the larger

forms; analysis of important contemporary compositions. **PREREQUISITES:** Music 306 and permission of the instructor. (*Individual instruction with added fees as for applied music.*)

406. Composition II. (2).

Free composition in all forms in various media; contemporary adaptations of older forms; calligraphy and preparation of manuscripts; analysis of contemporary works. **PREREQUISITE:** Music 405 and permission of the instructor. (*Individual instruction with added fees as for applied music.*)

407. Study and Travel in Music. (3 or 6).

Specialized study and travel under the direction of a faculty member of the Department of Music; a tour of the larger cities of Europe provides for attendance at concerts, visits to museums and other places of cultural importance.

411. Comparative Arts. (3).

Cultural activities in their interrelation with each other and with corresponding historic and economic events. Open without prerequisite to non-music majors of junior and senior standing.

412. Modern Music. (3).

Contemporary music and composers from Debussy to the present time, including the works of Stravinsky, Bartok, Hindemith, Schoenberg, and American contemporaries. Open without prerequisite to non-music majors of junior and senior standing.

413. The Opera and the Music Drama. (3).

A survey of the opera before Richard Wagner; study of Wagner's music dramas and operas of his contemporaries; dramatic and musical significance of each phase of the development of the two forms. Open without prerequisite to non-music majors of junior and senior standing.

414. Piano History, Literature, and Pedagogy. (3).

A study of keyboard literature from an historical and pedagogical point of view; emphasis on style and the development of keyboard technique from the time of the harpsichord composers to the present, with practical applications to piano teaching. Open to music and non-music majors with some keyboard facility and to piano teachers.

418. Sacred Music I. (3).

Music in the history of the Protestant church; hymnology and the performance of hymns; church choir organization; planning the service; organ and choral repertory. Open without prerequisite to non-music majors of junior or senior standing.

419. Sacred Music II. (3).

The development and present significance of Roman, Lutheran, and Anglican liturgical music; its relationship to the worship services of non-liturgical denominations. Open without prerequisite to non-music majors of junior or senior standing.

II. APPLIED MUSIC (INDIVIDUAL LESSONS)

Applied music is offered at three levels: (1) preparatory, (2) lower division, and (3) upper division. Lessons are given by members of the University faculty and by special instructors. Practice facilities are provided without charge, but there are additional fees for the individual lessons.

FEES: See page 66, Fees and Expenses. Fees are paid to the University at the office of the Business Manager.

REGISTRATION: Students will register for individual lessons in the same manner and at the same time as they register for other courses. Any inquiries concerning credits or course numbers should be directed to the chairman of the Department of Music.

CREDITS AND GRADES: One semester hour credit will be granted for one thirty-minute lesson weekly; two semester hours credit will be granted for two thirty-minute lessons weekly. Practice hours will be assigned by the instructor to meet the needs of the student. Grades are awarded on the same basis and have the same significance as in other subjects.

EXAMINATIONS: For an examination in applied music, each student will prepare and perform for members of the faculty of the Department of Music suitable musical selections and technical exercises of a grade of difficulty appropriate to his standing. Examinations will be held in the Music Hall on days set aside for this purpose near the end of each semester. Credit for the course will not be awarded to any student who fails to take the examination.

PREPARATORY COURSES

Regardless of his initial degree of advancement, any student of the University may register for individual lessons at the preparatory level except in organ; organ students must have the ability to play the piano before beginning organ instruction.

- 050. Piano. (1 or 2).
- 051. Organ. (1 or 2).
- 052. Stringed Instrument. (1 or 2).
- 053. Percussion. (1 or 2).
- 054. Woodwind Instrument. (1 or 2).
- 056. Brass Instrument. (1 or 2).
- 059. Voice. (1 or 2).

LOWER-DIVISION COURSES

Applied music courses in the lower division include the study normally carried out during the freshman and sophomore years. The piano or instrumental student at this level should have had several years of intensive study prior to University entrance so that he has a secure, reliable, and well-grounded technique on his instrument. Organ students may begin at this level provided that they play the piano well and have reasonable ability in sight reading. Requirements for admission to voice study at this level can best be determined by the instructor for the individual student.

Students who fall short of the requirements for admission to the lower-division courses will be advised to register for preparatory courses until deficiencies are eliminated. Course numbers will be repeated for each semester of study.

- 150. Piano. (1 or 2).
- 151. Organ. (1 or 2).
- 152. Stringed Instrument. (1 or 2).
- 153. Percussion. (1 or 2).
- 154. Woodwind Instrument. (1 or 2).
- 156. Brass Instrument. (1 or 2).
- 159. Voice. (1 or 2).

UPPER-DIVISION COURSES

Promotion to the upper division does not follow automatically after the completion of four semesters of courses in the lower division but is made only on the recommendation of the instructor; such a recommendation will be made only if the student's proficiency as a performer bears promise of future artistic and professional qualities as a soloist. It is at this level that the student normally begins preparation for a recital.

- 350. Piano. (1 or 2).
- 351. Organ. (1 or 2).
- 352. Stringed Instrument. (1 or 2).
- 353. Percussion. (1 or 2).
- 354. Woodwind Instrument. (1 or 2).
- 356. Brass Instrument. (1 or 2).
- 359. Voice. (1 or 2).

III. SMALL ENSEMBLES AND CHAMBER MUSIC

Advanced students are encouraged (and for certain degree plans are required) to participate in these groups. Selection for membership is based on an audition; courses may be repeated with the approval of the student's adviser. Three one-hour meetings per week.

- 360. Piano Ensemble. (1).
- 362. String Ensemble. (1).
- 363. Percussion Ensemble. (1).
- 364. Woodwind Ensemble. (1).
- 365. Stage Band. (1).
- 366. Brass Ensemble. (1).
- 367. Opera Soloists. (1).
- 368. Opera Workshop. (1).
- 369. Madrigal Group. (1).

IV. LARGE MUSICAL ORGANIZATIONS

Large instrumental and choral organizations are maintained on a high artistic and musical level and offer numerous opportunities for all interested and qualified students of the University to participate. Selection for membership is based on an audition; courses may be repeated with the approval of the student's adviser. Three one-hour meetings per week.

- 172. Music Education Orchestra. (See page 233 for description).
- 174. Music Education Band. (See page 233 for description).
- 177. University Glee Club. (1).
- 178. Men's Glee Club. (1).
- 179. Women's Glee Club.
- 373. University Orchestra. (1).
- 175. University Band. (1).
- 375. University Band. (1).
- 377. University Chorale. (1).

GRADUATE COURSES IN MUSIC

(For descriptions of the following courses and further details of the graduate program see the *Bulletin of The Graduate School*.)

- 501. A Study in Musical Styles from 1600 to 1800. (3).
- 502. A Study in Musical Styles from 1800 to the Present. (3).
- 505. Composition. (3).
- 511. Theory I. (3).
- 512. Theory II. (3).
- 516. Advanced Conducting. (3).
- 517. Choral Literature and Techniques. (3).
- 518. Instrumental Literature and Techniques. (3).
- 520. Music Education Seminar. (3).
- 550. Piano. Individual Instruction. (2 or 4).
- 551. Organ. Individual Instruction. (2 or 4).
- 552. Stringed Instrument. Individual Instruction. (2 or 4).
- 553. Percussion Instruments. Individual Instruction. (2 or 4).
- 554. Woodwind Instrument. Individual Instruction. (2 or 4).
- 556. Brass Instrument. Individual Instruction. (2 or 4).
- 559. Voice. Individual Instruction. (2 or 4).

MUSIC EDUCATION

PROFESSOR GEORGE JONES HARRIS, *Chairman*

Room 278, Administration Building

(Faculty listed on page 244)

Requirements for the major and minor in music education are listed on page 141.

FIELD OF ENDORSEMENT FOR TEACHING. *Endorsement may be obtained in either School Music or in Instrumental Music. Normally a student can expect to be recommended in only one of these areas. School Music applicants should be able to play piano accompaniments of average difficulty, should possess an adequate solo voice for school music purposes, and should schedule courses in a wide variety of choral activities. Instrumental Music applicants may satisfactorily meet piano and voice requirements with completion of Music Education 131 and Music Education 140, with their prerequisites. Study in one instrument of major emphasis, and participation in concert and marching bands, orchestra and a variety of smaller ensembles will also be required.*

123. Music for Classroom Teachers. (Replaces Music Education 221).
(3).

A study of methods of teaching classroom music in grades 1 through 6 through singing, playing instruments, listening, and moving to music; major scales, primary chords, rhythm, meter; functional use of the keyboard and easy-to-play melody instruments; sight singing with syllables and numbers. For relevant experiences in appreciation, a study is conducted of the instruments of the orchestra; recorded music representative of the musical styles and composers of the period 1700-1825 is heard both in and out of class. No prior training in music is required. Not open to music majors.

124. Music for Classroom Teachers. (Replaces Music Education 222).
(3).

A continuation of Music Education 123; minor scales, secondary chords; musical styles and composers from 1825 to the present.
PREREQUISITE: Music Education 123.

(The following courses, Music Education 126 through 140, are designed to teach the music education major, already a competent performer in one field, the playing techniques of the major instruments of band and orchestra and the methods of instructing others in these techniques. Practice facilities are provided and there are no additional fees. Each class meets two hours per week.)

126. Class Instruction in Percussion Instruments. (1).

127. Class Instruction in Percussion Instruments. (1).

128. Class Instruction in Piano. (1).

Basic technique, with emphasis on sight-reading.

129. Class Instruction in Piano. (1).

Playing of songs used in school music teaching; community songs and hymns; exercises written in music theory classes.

- 130. **Class Instruction in Piano. (1).**
Simpler Bach chorales, more difficult songs, and accompaniments appropriate to the student's major field; memorization optional.
- 131. **Class Instruction in Piano. (1).**
Selected easier studies and compositions by Czerny, Concone, Beethoven, Chopin, Schumann, Bartok, and others.
- 132. **Class Instruction in Stringed Instruments. (1).**
- 133. **Class Instruction in Stringed Instruments. (1).**
- 134. **Class Instruction in Woodwind Instruments. (1).**
- 135. **Class Instruction in Woodwind Instruments. (1).**
- 136. **Class Instruction in Brass Instruments. (1).**
- 137. **Class Instruction in Brass Instruments. (1).**
- 139. **Class Instruction in Voice. (1).**
- 140. **Class Instruction in Voice. (1).**

(The following courses, Music Education 172 and 174, provide familiarity with materials and routines suitable for use with school orchestras and bands; they enable a student who plays his major instrument in the University orchestra or band to gain needed playing experience on other instruments and also enable voice, piano, and organ majors to gain ensemble experience. Either course may be repeated for additional credit, or students may participate without credit. Each course meets three hours per week.

- 172. **Music Education Orchestra. (1).**
- 174. **Music Education Band. (1).**
- 321. **Music Supervision in Grades 1 through 9. (3).**
The teaching, supervision, and administration of music; basic concepts, philosophy, and objectives of music education.
- 325. **Teaching for Appreciation in Grades 1 through 9. (3).**
The listening experience and other related music activities as an approach to the appreciation of music. PREREQUISITE: permission of the instructor.
- 331. **Materials and Methods in Instrumental Music. (3).**
Developing the band or orchestra; balance and tone quality; conducting and interpretation; problems of intonation; literature for solos, ensembles, and groups of all grades.
- 421. **Special Problems in the Teaching of Music. (1 to 3).**
This course provides for class or individual study of the problems and opportunities faced by the person who teaches music in the schools; for classroom teachers, music teachers and supervisors, principals, and administrators.

OFFICE MANAGEMENT

(See SECRETARIAL SCIENCE AND OFFICE MANAGEMENT)

PHILOSOPHY

PROFESSOR WILLIAM BRYAN BARTON, JR., *Chairman*
Room G-5, Johnson Hall

ASSOCIATE PROFESSOR BIGGER

Requirements for the major and minor in philosophy are listed on page 117.

111. **Introduction to Philosophy. (3).**
A study of the great problems arising in the reflection upon the knowledge and nature of the world and human conduct in it.
112. **Elementary Logic. (3).**
An introduction to the principles of traditional logic, with emphasis on deductive inference, the fundamentals of inductive reasoning, and logic as a practical human instrument.
221. **The Conflict of Ideals in Contemporary Civilization. (3).**
The philosophical implications of important current issues, with attention to the philosophical presuppositions of the cultural, intellectual, political, and economic conflicts of the modern world.
222. **Introduction to Ethical Thought. (3).**
An elementary course in ethics emphasizing the great ethical systems from ancient to modern times.
311. **History of Philosophy. (3).**
Important systems of thought of ancient and medieval philosophy, with selected readings from the great philosophers.
312. **History of Philosophy. (3).**
Great modern philosophers from Descartes to the existentialists, with selected readings from important works.
313. **Philosophy of Religion. (3).**
The contribution of philosophy to the basic issues of religion; a recognition of the principles which make religion valid throughout all its diverse forms and in the face of advancing scientific knowledge.
314. **History of Living Religions. (3).**
A historical and comparative survey of the contemporary non-Biblical religions of the world, with readings in the important literature: Primitivism, Hinduism, Buddhism, Confucianism, Taoism, Islam, etc.
315. **The Philosophy of Art. (3).**
The major forms of aesthetics as expressed in painting, sculpture, and music, with readings in the great classics in aesthetics.
322. **Contemporary Ethical Theory. (3).**
Contemporary ethical thought with readings from important works in the field.
411. **Advanced Logic. (3).**
The techniques of modern symbolic logic and scientific method. **PREREQUISITE:** Philosophy 112.
412. **Theory of Knowledge. (3).**
The basic problems of epistemology, with readings in the important philosophers. **PREREQUISITES:** two courses in philosophy, or permission of the instructor.

413. Metaphysics. (3).

An analysis of the basic metaphysical concepts and a critical study of old and new theories of the nature of being. PREREQUISITES: two courses in philosophy, or permission of the instructor.

414. Contemporary Philosophy. (3).

The major concepts and problems of modern philosophy, including existentialism and logical positivism. PREREQUISITES: two courses in philosophy, or permission of the instructor.

415. American Philosophy. (3).

The development of philosophical traditions in the United States from the Puritans to the present and their relationship to social and cultural history. PREREQUISITES: two courses in philosophy, or permission of the instructor.

GRADUATE COURSES IN PHILOSOPHY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For further details see the Bulletin of The Graduate School.)

G-411. Advanced Logic. (3).**G-412. Theory of Knowledge. (3).****G-413. Metaphysics. (3).****G-414. Contemporary Philosophy. (3).****G-415. American Philosophy. (3).****511. Seminar in the Problems of Current Philosophy. (3).****512. Seminar in the Problems of Current Philosophy. (3).****PHYSICAL EDUCATION**

(See HEALTH AND PHYSICAL EDUCATION)

PHYSICAL SCIENCES

(See CHEMISTRY AND PHYSICS)

PHYSICS

(See CHEMISTRY AND PHYSICS)

POLITICAL SCIENCE

PROFESSOR ERWIN CLYDE BUELL, *Chairman*

Room 411, School of Business Administration Building

ASSISTANT PROFESSORS McCLANAHAN and MORROW

MR. BRIGMAN

Requirements for the major and minor in political science are listed on page 118.

For information concerning the pre-law curriculum, see page 106.

121. Introduction to Political Science. (3).

Nature and development of the state, role of government in the social process, the nature and development of political organization, and the search for a just balance of authority and freedom.

- 122. Survey of Modern Foreign Governments. (3).**
A comparative study of political institutions and functions of selected foreign governments: Great Britain, France, Germany, Russia, and Switzerland.
- 221. National Government. (3).**
The origins of our system of government, the framing of the Constitution, the principles underlying constitutional government, citizenship, civil rights, political institutions, the national executive, the congressional organization and function, and the judicial process.
- 222. State and Local Governments. (3).**
The role of the state governments in the Federal System, political institutions, elections; the organization, functions, and problems of state government, with special emphasis on Tennessee government.
- 311. The Legislative Process. (3).**
The origins, organization, functions, and activities of the modern legislature; making laws, supervising the administration, representing and informing the people.
- 312. Municipal Government. (3).**
Structure and policy making; functions and administrative operation; and problems facing the modern city.
- 313. Politics and Pressure Groups. (3).**
The development, nature, and functions of political parties; nature and function of pressure groups, and their roles in politics.
- 314. Public Administration. (3).**
The concepts and practices of organization and management in the executive departments, national, state, and local; an analysis of bureaucracy, administrative theory, budgeting, personnel, and administrative leadership.
- 315. Introduction to Law and Jurisprudence. (3).**
A study of the sources, functions, and processes of law.
- 321. Latin American Government and Politics. (3).**
The forms of organization, the functions and operations of government in Latin America. Emphasis will be placed on the development of political institutions and present day trends.
- 331. International Politics. (3).**
A basic study of international relations, with emphasis on the methodology of international politics as a discipline and the basic political concepts of national policy and international politics.
- 341. History of Western Political Thought. (3).**
The history, formation, and development of political thought of the West, beginning with the political philosophers of ancient Greece and tracing the development of Western political theory and constitutionalism.
- 351. Modern Political Ideologies. (3).**
A study of authoritarianism and democracy as represented by a comparison of democracy, socialism, communism, and fascism.
- 411. American Foreign Policy. (3).**
An analysis of American foreign policy, with emphasis on the factors involved in developing and implementing policy.

- 412. Development of United States Domestic Policy. (3).**
A study of the formation and execution of selected domestic policies (fiscal, economic, agriculture and conservation, welfare, grants-in-aid) with a detailed examination of the political and administrative environment of governmental decision making.
- 413. Municipal Problems. (3).**
A study of selected problems in municipal administration (organization, personnel, fiscal, planning).
- 414. The Constitution: Governmental Structure and Relationships. (3).**
(Formerly United States Constitutional Development to 1875)
An analysis of the relationships and controls of the three branches and the nature of the division of power between the nation and the states, with emphasis on the role of the Supreme Court as the arbiter in the constitutional system.
- 415. The Constitution: Political and Civil Rights. (3).**
(Formerly United States Constitutional Development since 1875)
An examination of the judicial interpretation of the political and civil rights with emphasis on the period since 1865.
- 422. Soviet Government and Politics. (3).**
Organization and function of the authoritarian state, with emphasis on the role of the Communist Party and ideology.
- 423. British Government and Politics. (3).**
The nature and development of the British Constitutional system, with special emphasis placed on the Cabinet, Parliament, and the Commonwealth organization and function.
- 431. American Political Thought. (3).**
An analysis of political thought in the United States from the colonial to the present time, with emphasis placed on the relation between political thought and political institutions and practices.
- 432. International Law and Organization. (Formerly Political Science 332). (3).**
A study of legal and organizational controls of international conflict.
- S-525. Political Geography. (Same as Geography S-525). (3).**
The content and philosophy of political geography as illustrated by a broad survey of major writers in the field followed by student analysis of individual nation-states.

GRADUATE COURSES IN POLITICAL SCIENCE

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses and further details of the graduate program, see the Bulletin of The Graduate School.)

- G-412. Development of United States Domestic Policy. (3).**
G-413. Municipal Problems. (3).
G-422. Soviet Government and Politics. (3).
G-423. British Government and Politics. (3).
521. Seminar in Comparative Political Institutions and Thought. (3).
525. Political Geography. (Same as Geography 525). (3).
531. Seminar in United States Political Institutions and Thought. (3).

PSYCHOLOGY

PROFESSOR JAMES RAYMOND McCANN, *Chairman*
Room 211, Johnson Hall

ASSOCIATE PROFESSORS ANDERSEN and BOONE

ASSISTANT PROFESSORS BORRESEN, CONSALVI, HACKETT, LEEMING,
and SPRUNT

MR. DEWS, MISS LAND, and MR. LONG

DR. ADDINGTON, DR. CANNON, DR. DELANGE, and MR. STIMBERT

Requirements for the major and minor in psychology are listed on page 118.

IMPORTANT NOTES: Psychology 111 and 112 are prerequisite for all other courses in the Department of Psychology.

111. General Psychology I. (3).

An introduction to psychology as a basic science emphasizing research findings and theoretical interpretations in the investigation of human behavior. Areas covered include individual differences, social processes, aptitudes and vocational adjustment, intelligence, personality, and behavior pathology.

112. General Psychology II. (3).

A continuation of Psychology 111. Areas covered include sensation and perception, motivation and emotion, learning and retention, and physiological mechanisms.

212. Psychology in Business and Industry. (3).

Attitudes, morale, skill, motivation, fatigue, and other psychological factors important in employer and employee relations in business and industry.

213. Social Psychology. (3).

A study of the influences of group behavior and cultural traditions upon the individual's vocational, domestic, and social adjustments. The psychological factors in the major problems of today.

215. Quantitative Methods. (3).

Elementary statistics with primary emphasis on computation. Measures of central tendency and variability with introduction to tests of significance and correlation.

216. Sensation and Perception. (3).

Detailed survey of the major senses with emphasis on methods of investigation and behavioral applications. Study of the perceptual processes involving interactions between senses and influences of learning and motivation on perception.

217. Motivation. (3).

Consideration of the concepts of instinct, drive, and motive, with an integration of animal and human studies in this area.

311. Psychology of Personality. (3).

The development, organization, and assessment of the normal personality with an introduction to the nature of personality theory.

312. Psychology of Behavior Disorders. (3) .

A survey of basic concepts of psychopathology with emphasis on the development of behavior deviations; description of various neurotic and psychotic reactions; an introduction to methods of psychotherapy.

- 314. Learning and Behavior Modification. (3).**
Critical examination of dominant concepts and principles involved in a general theory of behavior with emphasis on the role of habit formation and acquisition of motives.
- 315. Experimental Psychology. (4).**
Methods and techniques of controlled experimentation in the areas of motivation, learning, and perception. Emphasis on and experience with theoretically oriented research. **PREREQUISITE:** Psychology 215.
Three lecture, two laboratory hours per week.
- 316. Developmental Psychology. (3).**
Patterns of intellectual and behavioral development from birth through the adolescent years. Psychological effects of genetic, organic, and environmental influences as the child matures.
- 411. History of Psychology. (3).**
A general orientation course covering the historical antecedents and systems of psychology. **PREREQUISITE:** 12 semester hours in psychology.
- 412. Physiological Psychology. (3).**
A study of the physiological functions involved in behavior and experience. Surveys the physiology of the sense organs, nervous system, and response mechanisms. **PREREQUISITE:** 12 semester hours in psychology.
- 413. Advanced Quantitative Methods. (3).**
A follow-up to Psychology 215 with emphasis on standard errors of all commonly used statistics as well as the analysis of variance, Chi Square, and non-parametric tests. **PREREQUISITE:** Psychology 215.
- 414. Psychology of Exceptional Children. (3).**
Home and school problems of handicapped, retarded, emotionally unstable, precocious, or gifted children. **PREREQUISITE:** 12 semester hours in psychology.
- 417. Psychological Appraisal. (3).**
Introduction to the development and application of psychological tests. Survey of instruments and techniques currently used in the psychological appraisal of the individual. **PREREQUISITE:** 12 semester hours in psychology.
- 418. Comparative Psychology. (3).**
Detailed study of laws of heredity and interactions of genetic factors and environmental factors as applied to individual and species differences in behavior. Survey of differences between species as to processes underlying behavior including sensation and perception, learning and motivation, and intelligence.

GRADUATE COURSES IN PSYCHOLOGY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses and further details of the graduate program see the *Bulletin of The Graduate School*.)

G-411. History of Psychology. (3).

G-412. Physiological Psychology. (3).

- G-413. Advanced Quantitative Methods. (3).
- G-414. Psychology of Exceptional Children. (3).
- G-417. Psychological Appraisal. (3).
- 501. Theories of Learning. (3).
- 502. Theories of Personality. (3).
- 503. Psychometrics. (3).
- 511. Contemporary Approaches to Psychotherapy. (3).
- 521. Measurements of Intelligence. (3).
- 522. Projective Techniques. (3).
- 531. Directed Practicum. (1 to 3).
- 532. Directed Practicum. (1 to 3).
- 533. Directed Practicum. (1 to 3.)
- 541. Seminar: General. (3).
- 542. Seminar: General. (3).
- 543. Seminar: Clinical. (3).
- 544. Seminar: Clinical. (3).
- 593-6. Thesis. (3 or 6).

RUSSIAN

(See MODERN LANGUAGES)

SECRETARIAL SCIENCE AND OFFICE MANAGEMENT

PROFESSOR RIENZI WILSON JENNINGS, *Chairman*
Room 107, The School of Business Administration Building

ASSOCIATE PROFESSORS JOHNSON and ROBERTS
ASSISTANT PROFESSORS PATTERSON and TREECE
MISS BILLETT

Requirements for the majors and minors in secretarial science and in office management are listed on page 131.

- 111. **Personal Use Notehand. (2).**
Presentation of a brief, easy-to-learn writing method and an application of this system to help the student learn more and learn faster. Applications of notemaking to studying, listening, reading, outlining, composing and making notes at meetings and conferences. Three meetings per week. Both semesters.
- 121. **Elementary Typewriting I. (3).**
Use and operation of the parts of the typewriter, mastery of the keyboard, simple business and professional letters and reports, introduction to tabulations. Four meetings per week. Both semesters. Students who have completed one or more units of typewriting in high school may not take Secretarial Science 121 for credit.
- *122. **Elementary Typewriting II. (3).**
Typing manuscripts, legal documents, and the several styles of business letters; tabulations; operation of duplicating machines; development of a typing rate of better than 45 words per minute. Both semesters.

*Credit is allowed in only one of the following courses: Secretarial Science 122, Secretarial Science 222.

211. Fundamentals of Shorthand I. (3).

Basic principles of simplified Gregg shorthand — alphabet, brief forms, phrases, and abbreviations; beginning dictation and pre-transcription training. Both semesters. Students who have completed one or more units of shorthand in high school may not take Secretarial Science 211 for credit.

Two lecture, two laboratory hours per week.

212. Fundamentals of Shorthand II. (3).

Further study of shorthand theory, acquisition of ability to take rapid dictation and transcribe accurately. Enrollees must be able to type or be enrolled in a typewriting class while taking this course. Both semesters. PREREQUISITE: Secretarial Science 211 or permission of the instructor.

Two lecture, two laboratory hours per week.

***222. Typing for General Business. (3).**

An advanced typewriting class for nonsecretarial majors. Emphasis is placed on acquiring ability to set up business letters, forms, and statements, including tabulation. Both semesters. PREREQUISITE: Secretarial Science 121 or permission of the instructor.

311. Advanced Shorthand I. (3).

Review of shorthand principles, daily speed practice, development of transcription skill for production of mailable transcripts. Both semesters. PREREQUISITE: Secretarial Science 321.

Two lecture, two laboratory hours per week.

312. Advanced Shorthand II. (3).

A continuation of Secretarial Science 311, providing additional training and practice for the development of greater dictation and transcription speed. Emphasis is placed on mailable transcription at vocational levels. Spring semester. PREREQUISITE: Secretarial Science 311.

Two lecture, two laboratory hours per week.

321. Advanced Typewriting. (3).

Review of business letter styles, manuscripts and reports, statistical tables, and legal forms. Development of a typing rate of better than 60 words per minute on an electric typewriter. Both semesters. PREREQUISITE: Secretarial Science 122 or equivalent.

322. Personal Use Typewriting. (3)

Personal and business letters, reports, themes, and manuscripts. Summer term. PREREQUISITE: Secretarial Science 121 or permission of the instructor.

351. Business Report Writing. (3).

Techniques of report writing; principles of correct usage involving capitalization, spelling, word division, numbers, and punctuation; preparation of business reports, financial statements, auditor's reports, minutes of meetings, briefs, and research theses. Both semesters. PREREQUISITE: ability to type.

352. Business Letter Writing. (3).

Psychology of the business letter, preparation of various types of business letters, letter writing problems. Spring semester. PREREQUISITE: ability to type.

371. Secretarial Office Machines. (3)

Instruction and practice in the use of secretarial office machines such as the electric typewriter; key-punch machines; voice writing equipment—belt, disc, tape, and wire recorders—and stencil and direct process duplicators. Spring and summer semesters. PREREQUISITES: Secretarial Science 351 and permission of the instructor.

421. Secretarial Typewriting. (3).

Production typing with emphasis on vocational standards for office positions including typing from copy and from voice writing equipment. Spring semester. PREREQUISITE: Secretarial Science 371.

431. Applied Secretarial Practice I. (3).

Qualifications, duties and training of a secretary; requirements for employment; organization of work; telephone etiquette; business reference books; receptionist techniques. Fall semester.

432. Applied Secretarial Practice II. (3).

Handling of incoming and outgoing mail; filing procedure; installation, administration, and control of geographic, numeric, subject, and Soundex filing systems; practice in the several types of filing. Spring semester.

433. Secretarial Dictation. (3).

Students will do stenographic work in some offices on the campus. The instructor, after conferring with the office head, will plan remedial work designed to prepare student for stenographic employment upon completion of course. Both semesters. PREREQUISITE: Permission of the instructor.

Three lecture or 9 hours of office work per week.

442. Office Management I. (3).

Modern methods used in office organization and management, including role of office management, scientific office management, office reports, office correspondence, calculating and checking, filing, records retention, duplicating, handling the mail, planning procedures, planning for equipment, office machines, automation, planning for office space, physical working conditions and office layout. Fall semester.

452. Executive Communication. (3).

Methods and techniques of communication are critically examined through the writing of case problems in correspondence with emphasis placed upon principles and correct writing; and in reports with importance placed upon the collection, analysis, organization, and presentation of authentic data. Open to graduating seniors and to graduate students, the course is primarily designed for the student who has had no basic study in either business correspondence or business report writing on the graduate level.

S-542. Office Management II. (3).

Problems in actuating office employees and controlling the work of the office, including motivating office personnel, job evaluation, recruiting and training office employees, office supervision, standards and standardization, quantity and quality control, improving procedures, simplification, office forms, measuring and timing office work, office manuals, office costs and budgets.

GRADUATE COURSES IN SECRETARIAL SCIENCE AND OFFICE MANAGEMENT

(The following courses, described in the preceding section, may be taken for graduate credit. For further information concerning the graduate program, see the Bulletin of The Graduate School.)

- G-442. Office Management I. (3).
- G-452. Executive Communication. (3).
- 542. Office Management II. (3).

SOCIOLOGY AND ANTHROPOLOGY

ASSOCIATE PROFESSOR CHARLES NEWTON, *Chairman*
Room 230, Johnson Hall

PROFESSOR GORDON

ASSISTANT PROFESSORS ENOCH and HENDERSON

MR. GARZA, MR. NASH, and MR. OSOINAGH

DR. JENSEN, MR. RUTHERFORD, and MR. SCHWARTZ

Requirements for the major in sociology and the minors in anthropology, industrial sociology, and sociology are listed on page 118.

For information concerning the pre-social work curriculum, see page 107.

IMPORTANT NOTE: *Sociology 211 is a pre-requisite for all other courses in sociology.*

SOCIOLOGY

- 211. **Society and Man. (3).**
Nature and significance of culture; social organization and social processes; social and culture change.
- 212. **The Modern Community. (3).**
The community and its provisions for health, education, recreation, safety, and welfare; recent trends in control and planning.
- 311. **Sociometry. (3).**
Structures of social units; techniques and tools utilized in small group research; collection and interpretation of sociometric data.
- 312. **The Family. (3).**
The family in social change, the family and personality, family organization, family disorganization and reorganization, families in foreign lands, the future of the American family.
- 321. **Social Control. (3).**
The problem of social control, internalizing social control, social structures and institutions in the maintenance of order, improving social control.
- 322. **Social Attitudes. (3).**
Personal and popular attitudes, attitudes and wishes, attitudes as social forces.
- 323. **Social Stratification. (3).**
Social classes and social status; power, prestige, and social opportuni-

ties of the upper, middle, and lower classes; cross-cultural analysis of social stratification; social mobility.

411. **Criminology. (3).**
Theories of causation, crime as a business, affiliated problems, trends in punishment, treatment of offenders, control and prevention.
412. **Collective Behavior. (3).**
Emergence of collective behavior, spontaneous collectivities, social movements, social consequences of restrictive collective behavior.
413. **Industrial Sociology. (3).**
Social characteristics of business and industrial organizations; role of the consultant in personnel organization and human relations programs.
414. **Sociology of Occupations and Professions. (3).**
Sociological analysis of the division of labor, occupational groupings, career patterns, and professional associations in modern American society.
415. **Human Relations in Business. (Same as Management 443). (3).**
A study of the principles of human relations as applied to business. PREREQUISITES: Management 441 or 442.
416. **Educational Sociology. (3).**
Sociological analysis of education and its functions; school and community relationships; problems of social change and educational adjustments.
417. **Population. (3).**
Population theories and policies; their definition and history. Trends in population growth; methods of population analysis, and trends in fertility and mortality. Emphasis on fertility, mortality, sex and age composition, and migration and their influences on population change.
418. **Social Psychology. (3).**
A study of the social development of the individual and of the underlying sociological and psychological process of human behavior.
419. **History of Social Thought. (3).**
Emphasis on the historic sources of social ideas in Western culture in terms of their relevance to contemporary systematic theory.
420. **Analysis of Juvenile Delinquency. (3).**
Trends of juvenile delinquency; the development of case study techniques and diagnosis of juvenile delinquency; comparative analysis of various theoretical approaches. PREREQUISITE: Sociology 411.
421. **Contemporary Social Problems. (3).**
Investigation, analysis, and discussion of current social problems.
422. **Modern Sociological Theories. (3).**
European contributions, American developments, recent trends and influences in sociological theory.
423. **Survey of the Field of Social Work. (3).**
History and philosophy of social work in the United States, functions of public and private social service programs, qualifications and opportunities for social work practice.

424. **Methods of Social Work. (3).**
Theory and practice in social work, social casework, social group work, the interview, analysis of case records, field observation in local social agencies.
425. **Group Processes in Community Organization. (4).**
Community organization and the utilization of citizen groups, action research, group process techniques, orientation and application for social work and other fields.
426. **Research Methods in Social Relations. (3).**
Statistical and non-statistical approaches employed in contemporary social research, review and analysis of important monograph findings, practical applications derived from recurring social behavior.
444. **Human Ecology. (3).**
Spatial structure and land use patterns of urban, rural, and fringe areas; city growth, its spatial and communicative extension into suburban and rural areas, and its impact on the economy, values, and social organization of communities.
445. **Race Relations. (3).**
A study of ethnic organization and interrelations with specific emphasis on the status of the Negro in American society, and the process of integration.
499. **Directed Individual Study. (1 to 4).**
Individually directed advanced reading and/or research in special areas of interest. PREREQUISITE: permission of department chairman.

ANTHROPOLOGY

211. **Introduction to Physical Anthropology. (3).**
Man's place in nature, human origins, the fossil record from archaeological excavations, the biological aspects of race.
212. **Society and Culture. (3).**
Theoretical frameworks within which social and cultural processes are analyzed, interpreted, and understood; comparative studies of human cultures.
221. **Archaeological Field Techniques. (3 or 6).**
Experience in field excavations conducted at Chucalissa Museum; preparation of specimens, use of survey instruments, photographing and keeping archaeological records, map making of small ground areas. Hours individually arranged for either one or both summer terms. PREREQUISITE: permission of department chairman.
311. **Survey of Old World Archaeology. (3).**
Early beginnings of culture, man's initial conquest of nature, the rise of civilization.
312. **Survey of American Indian Archaeology. (3).**
Theories of early migration, development of cultural sequences, rise of Mesoamerican and South American civilizations. Final two weeks devoted to archaeological methods.
313. **Peoples of the World. (3).**
Ethnographic summary of the multiform picture of the cultures

produced by mankind. PREREQUISITE: Anthropology 212 or permission of department chairman.

- 314. Research Techniques and Museum Operation I. (3).**
Individual instruction with a focus on the methods of analysis and the planning of displays. PREREQUISITE: permission of department chairman.
- 315. Research Techniques and Museum Operation II. (3).**
A continuation of Anthropology 314.
- 325. Mechanics of Communication. (3).**
Nature and usefulness of symbols, mechanisms by which they are communicated, relation of symbolic systems to thought and culture, comparative techniques used to reconstruct prehistoric languages.

GRADUATE COURSES IN SOCIOLOGY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For further details see the Bulletin of The Graduate School.)

- G-411. Criminology. (3).**
G-412. Collective Behavior. (3).
G-417. Population. (3).
G-419. History of Social Thought. (3).
G-420. Analysis of Juvenile Delinquency. (3).
G-422. Modern Sociological Theories. (3).
G-426. Research Methods in Social Relations. (3).
G-445. Race Relations. (3).
G-499. Directed Individual Study. (1 to 4).

SPANISH

(See MODERN LANGUAGES)

SPECIAL EDUCATION

(See CURRICULUM AND INSTRUCTION)

SPEECH AND DRAMA

PROFESSOR HARRY AUSPRICH, *Chairman*
Room 141, Administration Building

PROFESSORS BENCE and WHITE

ASSOCIATE PROFESSORS RAPP and RIGGS

ASSISTANT PROFESSORS PARK, PARSONS, and PRENDEVILLE

MISS COX, MR. HERZOG, and MR. SCHON

MR. HOLIDAY, MR. HOLST, MR. IRWIN, MISS LIMBAUGH, MRS. MCCRAY
and MR. SUTTON

The Department of Speech and Drama offers majors in public address, theatre and oral interpretation, radio and television, speech pathology and audiology, and general speech; the requirements for these majors and for the minor are listed on page 118.

Students majoring in the Department of Speech and Drama must participate in dramatic and forensic activities of the department.

Through its affiliation with the Memphis Speech and Hearing Center the University is able to offer its students the facilities of that institution; members of the staff of the Speech and Hearing Center teach courses on the campus in speech pathology and audiology.

***101. Business Speech. (3).**

Basic principles of oral communication, with attention to the speaking situation of the business world.

***111. Basic Speech. (3).**

Adjustment to the speaking situation with emphasis on research and analysis, effective voice usage, and speech organization.

112. Public Speaking. (3).

Organization and delivery of speeches of various types, including discussion techniques and speeches for various occasions; attention is given to developing the student's ability to analyze and criticize speech performances.

121. Voice and Diction. (3).

Principles of effective voice usage, including special attention to the individual voices of the class members; designed to improve voice characteristics and diction.

150. Introduction to the Theatre. (3).

A consideration of all of the dramatic elements of the theatre from the viewpoint of the audience, designed to enhance and improve the student's appreciation of theatrical performances.

231. Argumentation and Debate. (3).

The principles of argumentation, analysis, evidence, and the organization of the argumentative discourse.

232. Parliamentary Procedure and Group Leadership. (3).

The study of the development of rules of conduct for deliberative bodies; practice and criticism in the use of parliamentary procedure; techniques of group leadership with special emphasis on clubs and small organizations.

245. Oral Interpretation. (3).

Principles of the oral interpretation of literature.

251. Theatre: Back Stage. (3).

A lecture-laboratory course covering basic elements of scenery construction and painting, stage lighting, properties, and make-up.

252. Theatre: On Stage. (3).

A beginning lecture-laboratory course for directors.

253. Elementary Acting. (3).

A lecture-laboratory course covering the basic techniques and principles of acting.

*Credit may be earned in only one of the following courses. Speech 101, Speech 111.

The following three courses are prerequisite to all other courses in speech pathology and audiology.

- 261. Phonetics. (3).** (Formerly Speech 465.)
Knowledge and practice in the use of the International Phonetic Alphabet; consideration of the physiology of the ear and vocal mechanism.
- 262. Principles and Methods of Speech Correction. (3).** (Formerly Speech 467.)
An introduction to the principles and methods of correcting speech and hearing disorders, with scheduled observations and demonstrations at the Memphis Speech and Hearing Center.
- 263. Audiology. (3).** (Formerly Speech 468.)
An introductory course dealing with the theory and technique practiced in audiometry and speech reading.
- 280. Fundamentals of Broadcasting. (3).**
A survey of the development of AM and FM radio and television with emphasis on structure, programming, and control; the role of radio and television in education, entertainment, and public service; methods used in evaluating audience interest and motivation. **PREREQUISITE:** Sophomore standing and permission of department chairman.
- 281. Radio Production I. (3).**
A study of the principles of radio performance and production with specific instruction in audio, microphones, role of the radio director, acting, announcing, and the integration of these elements into the total radio production. **PREREQUISITE:** Speech 280.
- 282. Radio Production II. (3).**
Advanced training in radio production with emphasis on the documentary, dramatic program, and special events format. The programs will be taped and played on local radio stations. **PREREQUISITES:** Speech 280 and 281.
- 300. Forensic and Dramatic Activities. (1).**
A course for students who are interested in preparing for and participating in intercollegiate forensic activities and University dramatic activities. One hour credit each semester for three clock hours of supervised laboratory work per week.
- 330. Advanced Argumentation and Debate. (3).**
Advanced principles of argumentation applicable to deliberative and forensic speaking, including the preparation of debate cases and participation in intercollegiate debates.
- 331. Discussion. (3).**
Consideration and practice of the principles and techniques of discussion, dealing with current problems of wide interest and significance.
- 332. Advanced Public Speaking. (3).**
Application of public speaking principles to complex public address situations; additional performances before community groups. **PREREQUISITE:** Speech 231, or permission of the instructor.

- 345. Advanced Oral Interpretation. (3).**
An advanced course in the principles and practice of the oral interpretation of literature including poetry, prose, and drama. **PREREQUISITE:** permission of the instructor.
- 346. Readers' Theatre. (3).**
The study and public performance of prose, poetry, and drama suitable for presentation in the styles of readers' theatre and chamber theatre. **PREREQUISITE:** permission of the instructor.
- 351. Theatrical Design. (3).**
The planning and practice of scene design for plays of all periods. **PREREQUISITE:** permission of the instructor.
- 352. Advanced Play Directing. (3).**
The direction of the long play, modern and historical.
- 353. Advanced Acting. (3).**
A survey of acting styles from classicism to realism.
- 354. History of the Theatre. (3).**
A history and survey of drama from Aeschylus to Turgenev.
- 355. History of the Theatre. (3).**
A history and survey of drama from Ibsen to Ionesco.
- 361. Communication: Anatomy and Physiology. (3).**
An introduction to the anatomy and physiology of the hearing and vocal mechanism with attention to pathology affecting speech and voice. **PREREQUISITES:** Speech 261, 262, and 263.
- 362. Functional Speech Disorders. (3).**
A detailed study of the techniques and methods of correcting speech disorders which frequently have no organic basis. Those disorders emphasized most are stuttering, delayed speech, and poor articulation. Observations in the Memphis Speech and Hearing Center. **PREREQUISITES:** Speech 261, 262, 263.
- 363. Organic Speech Disorders. (3).**
A detailed study of the techniques and methods of correcting speech disorders of organic origin. The disorders most emphasized are cleft palate, aphasia, voice problems, cerebral palsy, and language disorders. Observation in the Memphis Speech and Hearing Center. **PREREQUISITES:** Speech 261, 262, 263, and 361.
- 364. Auditory Training and Speech Reading. (3).**
Evaluation of hearing losses by means of speech audiometry; methods in auditory training; methods in lip-reading training. **PREREQUISITES:** Speech 261, 262, 263.
- 381. Television Production I. (3).**
The elements of television production techniques including camera, audio, lighting, staging, graphics, and on-camera appearance. Practical experience in class production of television programs utilizing the facilities of WKNO-TV. **PREREQUISITE:** Speech 280 and 281.
- 382. Television Production II. (3).**
Techniques of television production including the producing and directing of television programs at WKNO-TV. **PREREQUISITE:** Speech 381, or permission of instructor.

- 383. Television Performance. (3).**
Problems of the television performer; adaptations in composition and interpretation which the medium requires of the announcer, narrator, master of ceremonies, and actor. Performance situations designed to aid in the development of performance skills. **PREREQUISITE:** Speech 280.
- 384. Radio and Television Dramatic Writing. (3).**
Study and practice in writing for the broadcast media. Emphasis is placed on writing unit programs in dramatic form, including adaptations, documentaries, and original plays. **PREREQUISITE:** Speech 381.
- 391. Methods of Teaching Speech. (Same as Education 391P). (3).**
The teaching of fundamentals of speech in the secondary school.
- 431. History of British and American Oratory. (3).**
A history of the life, times, and speeches of outstanding orators of England and America. **PREREQUISITE:** permission of the instructor.
- 432. Advanced Discussion. (3).**
Advanced theory of logical and psychological facets of group dynamics, including participation in radio and television discussions. **PREREQUISITE:** Speech 331.
- 433. Persuasion. (3).**
Advanced theory of the psychology of speech, investigation of audience motivation, the theory of persuasive techniques, and practical application of all of these.
- 435. Speech Criticism. (3).**
Problems in the theory and criticism of classical and modern rhetorical works; application of the principles of rhetoric to the critical evaluation of current public speaking practice.
- 445. Interpretation of Dramatic Literature. (3).**
Practice in the interpretation of dramatic materials; solo and group work in the interpretation of short stories and plays of all periods. **PREREQUISITE:** permission of the instructor.
- 451. Costume Design for the Stage. (3).**
A survey of historic dress and the planning and rendering of costume designs for plays of all periods. **PREREQUISITE:** permission of the instructor.
Two lectures, one laboratory hour per week.
- 452. Stage Lighting. (3).**
The planning and execution of lighting for stage production. **PREREQUISITE:** permission of the instructor.
- 457. Playwriting. (3).**
Principles and practice in writing the one-act play. **PREREQUISITE:** permission of the instructor.
- 458. Playwriting. (3).**
Principles and practice in writing the full-length play. **PREREQUISITE:** permission of the instructor.
- 461. Speech Pathology. (3).**
Steps involved in the differential diagnosis of speech disorders, establishing etiology, and planning a corrective program. Observa-

tion of diagnostic sessions in the Memphis Speech and Hearing Center. The contributions of surgery, medicine, psychology, and other related disciplines. PREREQUISITES: Speech 261, 262, and 263.

462. **Clinical Speech and Hearing Practicum. (6).**
Two hundred hours of supervised experience in evaluating and conducting therapy with children and adults who have communicative handicaps. This work is done in the Memphis Speech and Hearing Center and in other rehabilitation agencies, schools, and hospitals. PREREQUISITE: Permission of the instructor.
481. **Television Production III. (3).**
An intensive study of the more advanced techniques of television production and direction. Special emphasis on the dramatic and children's formats with regard to their unique production problems. PREREQUISITE: Speech 382.
482. **Television Management and Programming. (3).**
A study of the principles of broadcast management and programming with special attention to station operation, the role of the producer-director, and the production of local programs. PREREQUISITE: Speech 280.
491. **Speech for the Classroom Teacher. (3).**
The speaking needs and abilities of teachers and students in the public schools.
492. **Play Production for Secondary Schools. (3).**
The problems of the play director in high schools.
493. **Directing the Forensics Program. (3).**
Designed for the teacher charged with the responsibility of developing and directing interscholastic or intercollegiate competitive speech programs; the study of the historical background for such programs, organizing techniques, recruiting, tournament direction, and other related concerns.

GRADUATE COURSES IN SPEECH AND DRAMA

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For further details see the Bulletin of The Graduate School.)

- G-431. **History of British and American Oratory. (3).**
- G-435. **Speech Criticism. (3).**
- G-461. **Speech Pathology. (3).**
- G-462. **Clinical Speech and Hearing Practicum. (6).**
- G-481. **Television Production III. (3).**
- G-482. **Television Management and Programming. (3).**
- G-492. **Play Production for Secondary Schools. (3).**
- G-493. **Directing the Forensics Program. (3).**

DEGREES CONFERRED IN 1963

FIRST CONVOCATION
OF THE FIFTY-FIRST COMMENCEMENT
FEBRUARY 2, 1963

THE SCHOOL OF ARTS AND SCIENCES

BACHELOR OF ARTS

*Sylvia Aizenshtat	Rene Mercedes Ginn
*William Ernest Bennett	Albert Bryan Hornsby, Jr.
Irvin Stanely Booth, Jr.	Judith Claire Massey
Robert Charles Brown	Ynacio Ortiz
Larry Melvin Coppersmith	

BACHELOR OF FINE ARTS

Betty Jane Melvin

BACHELOR OF MUSIC

Johnny Portis Cox	Carolyn Ann Green
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BACHELOR OF SCIENCE

Patricia Ann Beasley	Allan Browning Ferguson, Jr.
Thomas Oakley Bell	Janice Karen Fields
*Glenna Anne Boales	Nikki Lentz Frase
Carl Raymond Bogan	James Wilson Freeman
Betty Jean Briscoe	Jerry Edmond Green
Robert Edward Burke	Hugh Patrick Heffernan
*Cherry Joyce Cabler	*Willis Bradford Henderson
Dorothy Sharpe Carey	William Thomas Henderson
Dixie Virginia Carter	William Thomas Huskison
John Howard Colvett	Richard Edward Jabbour
Joan Cooper	Carolyn Cox Leverett
*Elaine Covellis	Eugene Ray Little
Harry Eugene Craig	Robert David Lucas
John Henry Criner III	David Eugene Lutz
James Lindsay East	Frank Chester Masserano, Jr.
*Cum Laude	

Patrick S. Miller	George Roderick Smith
Arthur Lee Mixon	*Margaret Alice Pate Smith
Robert Harold Null, Jr.	John Francis Stetson
*Carl Edison Pierce, Jr.	Alan Milton Strautman, Jr.
Burton Whitmon Renager, Jr.	Phillip Smith Weaver
Bettye Lou Ross	Martha Kay Weems
James Glenn Scarvey	Anthony Joseph Whitehead
*Charlotte Frances Sharpe	Albert Leo Williams
Walter Edward Shepard, Jr.	John Taylor Williams, Jr.
Bobby Kent Sifford	Thomas Oval Wood
**Lois Arnold Siniard	Jenny Lee Yates
Charles Edward Smiley	

THE SCHOOL OF BUSINESS ADMINISTRATION

BACHELOR OF BUSINESS ADMINISTRATION

William Clayton Adams	*Ann Marie Langham
*Eldon Paul Allgood	Henry Edward Maddox
Millard Frank Baggett	Don Wallace Morgan
Jack Donald Bannister	Robert Edward Lee Morgan
Cathryn Barnes	Saunders Morgan Morton
Richard Dominick Batiste, Jr.	*Charles Herman Neumann
*Bama Gail Bingham	Billy James Owens
Charles Robert Blancett, Jr.	Benjamin Penchan
Harold Gene Burrows	Billy Winford Robinson
John Albert Canfield	Suzanne Rothrock
Merritt Hobson Crenshaw, Jr.	*James Nicholas Tansey
David Ray Farmer	Robert Lee Vaughn, Jr.
David Elliott Florence	*Paul Weinryb
Jimmie Darrell Fouts	LaVonne Elaine Wells
Martin Irving Greenberg	Ernest Williams, Jr.
Richard Chastine Haynie	Nancy Carol Wilson
William Morgan Holloway	Ronald Lynn Woodward
Vada Patricia Huessner	James Keith Zavelli
Cecil Jourd Lamberson	

THE SCHOOL OF EDUCATION

BACHELOR OF SCIENCE

Velma Louise Albat	William Davis Bradford, Jr.
Sandra Lynn Blount	Barbara Annelle Brewer
*Cum Laude	
**Magna Cum Laude	

Bryon Thomas Byars	Charlene Newman
*Mary Grace Copeland	Donna Janette Nichols
Mary Beth Curran	Joan James Nichols
*Peggy Ann Dunn	Rosemary Overton
William R. Durham	Barry Skipper Owen
*Patricia Ann Ferguson	Elizabeth Bowman Pike
Harriet Sue Friener	Susan E. Pollak
Joyce Lynn Cooper Graflund	Jesse Gerald Randel
**Phyllis Earline Haire	Eva Maxine Duke Reed
Patricia Frazier Hale	*Janet Shirley Ritter
Paula Ann VanEaton Hanson	Julietta Robinson
Janet Ruth Hatley	Geraldine Rowland
Susan Ann Head	Frances Teresa Simmons
Betty McNeil Henley	*Mary Jo Sparks
Dollie Dare Spalding Herbers	Iven Lee Stargel
Kendall Sechler Hughes	John Winsett Taylor
Mildred Louise Irby	*Russell Raymond Van Vlack
*Evelyn May Evans Leigh	Samuel Lafayette Wagster
Robert Clarence Lishman	William Fredrick Watts
*Annetta Sue Lochridge	Carolyn Faye Webb
Ruth Ann Moran	*Gwendolyn Sue Williams

THE DEPARTMENT OF INDUSTRIAL ARTS

BACHELOR OF SCIENCE

Ronnie Bruce Bonner	James Richard Griffith
Charles Eugene Coleman	John Stephen Hamilton
Giff Davis Edgerton	Bobby Prislovsky
Aubrey Lynne Ellis	Jerry Stanley Wagley

THE GRADUATE SCHOOL

MASTER OF ARTS

Bill Drue Avery	Harold D. Davis
William Brooks Barron	Robert E. Ditto
Edward Wyly Bigger, Jr.	James Robert Donovan
Leonard C. Bowers	Susie Gary Draper
Mary Keener Lawson Bowdon	Jane Williams Droke
Margie S. Caffey	Lila Reese Dumas
Robert Joseph Chapman	Roman Stanley Emde
Roger R. Clapp	John Olen Fish

*Cum Laude

**Magna Cum Laude

Douglas Gene Fritzel	Michael Thomas Moriarty
Dan M. Guinn	Albert G. Myers, Jr.
Mae Mikles Guise	Luther A. Parker
Orville C. Hancock	Julius B. Roberson
Larry Gladwin Harding	John Paul Rukavina
Everette Milton Hatcher, Jr.	Margie Pipkin Smith
Alice Randolph Hindman	Martha Nell Smith
Charles Franklin Hurtado	Joyce Janell Bryson Thompson
Ralph A. Hyde	Marion Robert Wells
Osa Smith King	Daniel S. Whipple
Margaret Smith Lumpkin	Catherine Kerby Wilkins
Angus Harris McAdory	Rubye Hanna Williams
James Albert McDearman, Jr.	Thomas Marshal Williams
John Francis Moran	

SECOND CONVOCATION
OF THE FIFTY-FIRST COMMENCEMENT
JUNE 1, 1963

THE SCHOOL OF ARTS AND SCIENCES

BACHELOR OF ARTS

*Charlotte Ann Birchfield	Mary Anne Holloway
*Carol Jean Bullfin	*John C. Hough, Jr.
Guylene Carter	*Barbara Jean Huffman
*Corinne Jane Clemmons	*Hugh Thomas Keenan
*Carolyn Elizabeth Dobbs	Bobbye Evelyn Presley
Patricia Ann West Easley	Patricia Josephine Privett
**Jimmie William Evers	Irvin Martin Salky
*Susie Elizabeth Ferrell	Barbara Catherine Smith
Juanita Gilliam	**Rosemary Carswell Stephens
*Jennie Belle Gwinn	*Mildred Beatrice Susskind
Susan Shuptrine Hardison	Clifton Riley Taylor
Kitty Martin Hart	Anita Marie Wyninegar

BACHELOR OF FINE ARTS

Joe Kenneth Baker	Helen Marie Kirksey
Helen Frerichs Kelsall	

*Cum Laude

**Magna Cum Laude

BACHELOR OF MUSIC

*Martha Lynn Jordan
Edith Joyce Pate

Enrica Mignonne Ramsey
William Paul Stehlin Sellari

BACHELOR OF SCIENCE

- | | |
|------------------------------|----------------------------|
| *Carolyn Jones Allen | Eleanor Joyce Gandy |
| *Aubra Erskine Anderson, Jr. | Sara Evans Gary |
| **Fleda Bell Anderson | Katherine O'Meara Gavin |
| Marilyn Ann Anderson | Vocel Curtis Gentry, Jr. |
| Miriam Bornstein Baer | Patricia Ann Gill |
| Betty Jane Baker | John Dudley Glover |
| Charles Francis Barrett | Otto Kenney Goins |
| *Gertrude Lloyd Beach | Martha Nell Hall |
| Florence Newton Bell | Dianne Davis Hamilton |
| James Morris Bingham | Sarah Jean Hancock |
| Dennis James Biodrowski | Limmie Lee Harrell, Jr. |
| **Jerome Blockman | Barbara Jean Higgins |
| John Janis Blumbeks | Mary Jane Holt |
| **Bernard Gerard Bricks | Ruth Oneida Hooker |
| *Julia Eve Brittain | John Anderson Hooks |
| Kay Frances Brothers | Richard Edmund Hopper |
| Sharron Kay Brown | James William Howell |
| Christine Sandra Cain | Richard Smith Hudson |
| *Anna Louise Castens | John Paul Huggins |
| Joseph A. Chamoun | Jackson Fielding Hurst |
| George Nelson Chandler | Richard Eugene Jackson |
| Arthur Brett Clark | Charles Ira James |
| Joan Fawbert Clarke | Jack Lewis Jamison |
| *Beverly Yvonne Collins | Danny Louie Jue |
| Newton Earl Cook | James Hilton Kee |
| William Terry Coolidge | Sally Roberta Kennedy |
| Edward Paul Davis | *Harriet Ann Keough |
| Carroll Wayne Dixon | James Anthony Kleiser, Jr. |
| *Charlie L. Epperson, Jr. | Walter John Klimek |
| Peter Edwin Fallat | Robert George Lang |
| Don Randall Ferguson | Forrest Orren Lax |
| Elizabeth Ann Ferriter | Peggy June Lazenby |
| Frank Lee Flaunt, Jr. | Robert Davidson Leipold |
| ***Herman Terry Fortune | *Mary Elouise Lemm |
| George Edward Gamble, Jr. | Louise Ferguson Lockhart |
| *Cum Laude | |
| **Magna Cum Laude | |
| ***Summa Cum Laude | |

- | | |
|---------------------------------|-----------------------------|
| James Marion Long | *John Eugene Scanlon, Jr. |
| Albert Sidney Lyons | John Wallace Schoettelkotte |
| James Roland Mabile | Glenn Eden Sipe |
| George M. Makris | James Robert Smith |
| Jacques Francois Malet | James Peyton Springs |
| Alvin Maynard Malkin | Donald Soule Stalcup |
| Billy Ray Martin | Daniel Robert Standard, Jr. |
| Howard Gerald McKinney | *Larry Joe Stephens |
| John Robert McLeod | *Diane Stephenson |
| David L. McMillen | Merle Edward Strickland |
| Morris Hitt Middleton | Costa Bill Taras |
| Hal Clifton Moore | Phillip Earl Taylor |
| Stephen Eugene Murray | Joseph Richard Thornton III |
| Robert Dean Naylor | Donald Edwin Timberlake |
| John Ray Neal | Lewis Earl Trotter |
| Gladys Lee Oakley | **Cecelia Mac Trout |
| Margaret Gail O'Donnell | Henry Edward Turner |
| Benjamin Travis Outlaw | Charles Lloyd Vaught |
| *Letha Elaine Cranford Peterson | *James Albert Wadell |
| Marilyn Joyce Phillips | Arthur Durwent Warren |
| *A. Elizabeth Pierce | Charles Adolph Weiner |
| **Martha Ann Powell | Miriam Anne Whipple |
| *Lyman Nelson Price | Lael Springer Wiley |
| Danny Martin Pugh | Charlotte De Lana Wilson |
| Ann Rauscher | Williams |
| Robert L. Rice | Billie Frederica Lackey |
| Obadiah Richmond | Williamson |
| Adelaide Lyon Robbins | Yam Suen Wong |
| Joel Morton Roitman | *Ronald Lee Woodall |
| Elaine Rosenblum | Marilyn Jane Word |
| Lee Ann Rosengarten | Barbara Delugach Worley |
| Charlotte Anne Runyan | Edward Rueben Young |
| *Robert Ray Rye | James William Young III |
| Pauline Mecklin Sarvis | |

THE SCHOOL OF BUSINESS ADMINISTRATION

BACHELOR OF BUSINESS ADMINISTRATION

- | | |
|---------------------------|----------------------|
| *Richard Edward Alexander | Jimie Lynn Bass |
| Carlton deCelle Anderson | Jerome Walter Bell |
| *Edwin Boyce Baker | *Hugh Wayne Blackard |
| *Cum Laude | |
| **Magna Cum Laude | |

James Todd Boggs	Jerome Allen Lit
Martha Lucille Boone	Gordon Taylor Longmire
Earl Randle Bouldin	Judy Darlene Manspeaker
Jean LeDon Burchett	James Oliphint McLeod
John Bland Burkhardt, Jr.	Harry Ronald Northington
*Garland Paul Castleberry	Robert Lee Parchman
Kenneth Gordon Cochran	Saul Lee Paster
Earl Martin Coppage	Jimmy Earl Patterson
James Henry Cox	David Conner Peck
Lelia May Culver	Larry Jo Pence
Marvin Sidney Dattel	Randall Ray Phillips
Philip Charles DeVore	Sarah Linda Cox Pugh
David Franklin Dodson	James Ted Renfrow
Cecil Earl Dunkin	Hershel Earl Shelton
Charles Emert	Gerald Warwick Shill, Jr.
Leslie Wayne Evans	William Walter Simmons III
William Walter Gillespie	Onnie Elwood Small
Donald Morris Glenn	Cecil Douglas Smith
Walton Cossitt Glover	Mervyn Davis Smith
Jimmy Farris Green	Wermund Hansen Sugg
Robert Gerald Harris	Kenneth Gerald Talbert
Don Henry Herriman	Reede Louis Taylor, Jr.
David Lloyd Hicks	Arthur Johnson Walton
Donald Ray Hundley	*Franklin Virgil Willis
Donald Gray Jones	*Joyce Ann Wray
Joseph Benjamin Lee, Jr.	

THE SCHOOL OF EDUCATION

BACHELOR OF SCIENCE

Mary Louise Adler	Betty Lou Johnston Castellaw
**Rose Marie Alexander	Lana Moss Cherry
Betty Sue Anderson	Ann Marie Chiozza
Carmine Ann Baker	Janice Reed Cobb
Milton Hunter Beckman	Billy Joe Colvard
Harriet Jane Bordelon	Sally Anne Corkran
Virginia Leigh Branham	James Robert Cox
Berry Gail Brigrance	Kay W. Crawford
Barbara Jordan Brooks	Jane Cummings
Norman Dennis Bryant	*Wilfred Daniel Currid
Marilyn Caldwell	Sherwood Leon Danforth

*Cum Laude

**Magna Cum Laude

Frances Virginia DeLoach	Sarah Amma McGregor
Lafon Duke Durham	James Joe McKinley
**Ralph Cagle Edwards	Mary Anne McNeill
Gustave G. Eichholz	Martha Ann Miller
*Linda Darnell Burchfield Estes	Carolyn Ruth Moore
Jane Ann Faucett	Helen Jean Moore
Nancy Jeanne Foster	Ann Smith Murchison
Jane Aycock Fransioli	Barbara Jean Murphy
Vera Sue Friddell	Una Jane O'Neill
Martha Faye Gallina	Eleanor Ann Osteen
Catherine B. Gary	Lourene Elizabeth Patton
Anna Elizabeth Gay	Kathryn Anne Porter
Paul Edward Giger	*Rose Alayne Drotor Powell
Brenda Joyce Gordon	Patricia Louise Rainey
Ann Vernon Newton Grogan	Gloria Ann Reece
*Herman Lloyd Hamm	Alice S. Romines
Ira Cecil Harris	Rochelle Lynne Rosen
Bobbie Kay Hillsman	Brenda Kay Sibley
*Ruby Dixon Hindmon	Donna Kathryn Skinner
Carolyn Ann Holmes	Judy Ann Bentley Smith
Vicki Margaret Holt	Polly DeBardeleben Smith
John Douglas Holtzclaw III	Lois Larson Sorgen
Mary Sue Cloys Howard	Helen A. Bucker Stephenson
Thelma Elizabeth Howard	Emily Sue Stringer
Howard Sparks Hurst, Jr.	Nancy King Taras
Mildred Windland Jacobson	Peggy Jean Taylor
Frances Cornelius Johnson	Cleland Dillard Tutor
Lucile Bernice Jones	Mary Claire R. Utley
*Lora Lea Leonard	Jesse Harding Vowell
*Mary Jane L'heureux	Jean Frances Walker
John Phelon Little	Dolores Elizabeth Wenzler
Martha Elizabeth Longmire	Dorothea Jeanette Williams
*Joy Nelle Lott	Melba Jean Williams
*Betty Jean Matlock	

THE DEPARTMENT OF INDUSTRIAL ARTS

BACHELOR OF SCIENCE

Richard Anthony Adragna	Michael Owen Brown
William Powell Amos	William James Brown
John Cameron Bramlett	James Edward Gibson
*Cum Laude	
**Magna Cum Laude	

Joe Marion Gooch
 Ted Stone Hooten
 Charles Allen McLain
 Jimmy Lee Murphy
 Eddie Wayne Rice

James Maurice Roberts
 Bernard Otto Soderlund
 Thomas Henry Solomon, Jr.
 James Noah Stewart
 Jere Don Stubblefield

THE GRADUATE SCHOOL

MASTER OF ARTS

Ruth Adair Augustine
 B.S., 1961, Memphis State
 University
 Amelia Manogue Bell
 B. A., 1940, Tulane University
 William Bryant Bretherick
 B. S., 1962, Memphis State
 University
 Gardner Pritchard Brooksbank,
 Jr.
 B. A., 1960, University of Miami
 Mary Louise Williams Clark
 B. A., 1955, Southwestern at
 Memphis
 Walter Raleigh Coppedge
 B. A., 1952, University of
 Mississippi
 B. Litt., 1956, Oxford University
 Victor Michael Coury
 B. A., 1942, Cardinal Glennan
 College
 Ada Jane Culbreath
 B. S., 1960, Memphis State
 University
 Junius Edward Davidson III
 B. A., 1959, Southwestern at
 Memphis
 Sara Ann Erwin
 B. S., 1962, Memphis State
 University
 Carol Jeanne Cox Gibson
 B. S., 1961, Memphis State
 University

Marie Johnson Gridley
 B. S., 1945, Memphis State
 University
 Larry McClearn Heathcott
 B. S., 1962, Memphis State
 University
 Martin Ray Houston
 B. S., 1961, Memphis State
 University
 George William Ingle
 B. S., 1962, University of
 Tennessee
 Elna Adelle Arnold Johnson
 B. S., 1958, Bethel College
 Nona Pike Little
 B. A., 1936, Union University
 Polly Waters Love
 B. S., 1958, Memphis State
 University
 Joe Nip McKnight
 B. S., 1956, University of
 Tennessee
 Jeanne Strickler North
 B. S., 1944, College of
 Charleston
 James Morgan Pendergrast
 B. A., 1958, Southwestern at
 Memphis
 Rose McAfee Pickle
 B. S., 1962, Memphis State
 University
 Mary Jo Powell
 B. S., 1954, Middle Tennessee
 State College

Carmack Wilson Sanders B. S., 1956, Memphis State University	William Edward Wild B. S., 1952, Arkansas A. and M. College
Karen Roberts Stafford B. A., 1959, Colorado State College	James E. Wilford, Jr. B. S., 1961, Memphis State University
Charlotte R. Staub B. S., 1934, University of Pittsburgh	Raymond D. Williams B. A., 1944, University of Mississippi
Maurine S. Talley B. S., 1960, Bethel College	Sara Jo Windland B. S., 1958, Memphis State University
Frank Allen Thornton B. B. A., 1959, Memphis State University	Charles D. Yates B. S., 1954, Memphis State University
Benjamin Franklin White, Jr. B. A., 1948, Vanderbilt University	

THE SCHOOL OF LAW

BACHELOR OF LAWS

Percy Robert Philip

THE SCHOOL OF LAW

Diplomas to those who hold the LL.B. from the University of
Memphis Law School which was absorbed by the Memphis State
University School of Law

Adolph Peter Alexander	Henry Charlwood Ellis III
Nell Agnes Sanders Aspero	Arthur J. Gemignani
Wilena Roberts Bejach	Warren Boyd Jordan
Lottie A. Blount	George B. Joyner
Alta Donna Boals	Oakley Lentz
Max D. Brown	Herman Frank Magoffin
Paul McIlvaine Bryan	Edward Payson McCallum
Travus Bunn Crawford	John M. McGregor
Leona McCarthy DeMere	Jesse Benton Moss
McCarthy DeMere	James Herman Parnell
John Thomas Dwyer	Marion C. Perryman
Thomas Edward Edmonds	Henry Phelan

Madeleine V. Smith	Crowley A. Davis
John Robert Stagner	Ira C. Denton
Edwin Miles Standefer, Jr.	Jean Louise Dolan
Frank T. Stegbauer	Paul H. Dorian
James Edward Strickland	Elizabeth Dudley
John T. Thompson	William Burton Duncan, Jr.
Katherine Wright Thompson	Herbert H. Dunkman
Robert Anderson Tillman	Jerre George Duzane
Abe D. Waldauer	George A. Eckerly
John R. Wallace	Richard Thomas Feltus
James Lee Williams	William H. Feltus, Jr.
Edwin Lacey Williamson	Robert G. Ferguson
Rebecca Johnson Young	Mary Aylett Fitzhugh
Joseph Henry Acklen	John Albert Fogelman
Thomas J. Adams	Newell N. Fowler
Ethan Edward Allen	Braxton C. Gandy
Robert William Bailey, Jr.	Ned Randolph Garner
Charles Earl Barentine	Ricco Gatti, Jr.
Lewis Trantham Barringer	John William Gibson
Rose L. Kehoe Bartlett	Sam M. Goldberger
Troy Beatty, Jr.	James Mett Gurley
Frederick Q. Belton	Joseph Hanover
Ned O. Berry	Carl George Hanson, Jr.
James Jacob Bertucci	Joseph Edward Hearn, Jr.
Theodore Wensel Bisland	Moss Mission Hentz
Auvergne Scates Blaylock	Emmett James House
Sam D. Blen	E. L. Hutton, Jr.
James Frederick Bousson, Jr.	N. Clifton Jamison
Robert Grattan Brown	Joseph Edward Jones
Richard Girard Busby	John Carroll Kallaher
John Robert Campbell	James Edwin Kennemore
Alvah Alton Carroll, Jr.	Robert Gammon Kinkle
Jesse Caleb Carter	Milord V. Kirkland
James Johnston Challen, Jr.	Bernard Fred Kissell
Walter W. Chiles	John T. Lawrence
William B. Clark	Bruce Law
Oliver Perry Cobb, Jr.	Henry Hirsch Lehman
Samuel Francis Cole	Fred D. Lewing
Philip Joseph Cooper	Robert Iley Livingston
Henry Craft	Samuel Grant Loring
Drury Brown Crawley	James Clark MacDonald
James Albin Crislip	James Eugene Madden
William E. Davidson, Jr.	William W. Martin

Roy Prince Maxwell	Don Hurt Powell
Roscoe Arthur Mayhall, Jr.	Charles Ellis Reagin
Edward Gavin Mays	Temple Everett Renegar
George A. McCormick	Jerome Rosengarten
John Wardlaw McGoldrick	Roy Callister Ryan
William Vincent McMahan	Harry Ulmate Scruggs
Robert Wilburn McMurry	Charles Stanfield Seay
Nannie Belle Miller	Arnold W. Shackelford
Curtis A. Mitchell	Phillip Kenneth Seidman
Early Franklin Mitchell	Robert L. Smith
William Bryan Mitchell	Tillie Blen Sonz
Herbert B. Moriarty	Cecil Lomax Springfield
Cecil B. Nance	James Francis Springfield
Charles Clifford Nash	Carl N. Stokes
Robert M. Nelson	John Homer Stone, Jr.
Edward C. Nickel	John Homer Stone, Sr.
J. Woodrow Norvell	Heard H. Sutton
Dewey Henley Orr	Melville Tant
George Rice Owen	John Hart Todd
William J. Owens	George Wayne Upton
John Sanford Patton	Edward Newman Vaden
Thomas N. Patton	Raymond O. Valley
William Dean Peery	Raymond Vernon White
Louis E. Peiser	Roger K. Wilson
Horace O. Pierotti	Alsey Hotchkiss Young, Jr.

DEPARTMENT OF AIR SCIENCE
AFROTC DETACHMENT NR 785

CANDIDATES FOR AIR FORCE COMMISSIONS

George N. Chandler	Jackson F. Hurst
Edward J. Conrad, Jr.	Danny M. Pugh
Carroll W. Dixon	Phillip E. Taylor
David F. Dodson	Reede L. Taylor, Jr.
Otto K. Goins	Ronald L. Woodall
David L. Hicks	

THIRD CONVOCATION
OF THE FIFTY-FIRST COMMENCEMENT
AUGUST 24, 1963

THE SCHOOL OF ARTS AND SCIENCES

BACHELOR OF ARTS

*Judith Dell Alexander	Barbara Ann Lucas
Marguerite Claire Bergdorf	Dixie Claire Moore
Carol Jean Bernatsky	**Ann Fiser Peterson
Leonard Page Brown, Jr.	Susan Ann Redmond
Nalup Kennon Chu	Claudette DeCourley Riley
Patricia Joy Chu	Jo Ann Edwards Robinson
Clinton C. Elliott	*Margaret Ann Rogers
Raymond Gordon Gamel	*William Thomas Ross III
*Martha Jo Glass	Judith Arlene Schwantes
**Rex Patrick Haire	Lila Elizabeth Thurmond

BACHELOR OF FINE ARTS

Charlotte May Cathey	Patricia Ann Jones
Sammy Lee Crawford	Patsy Lou Kerr

BACHELOR OF SCIENCE

James Richard Adams	Bernard Farrell Cooper
Philip Foster Arnoult	Malcolm Roger Courts
*Frances Gray Baird	Kenneth Elbert Crowe
Linda Lou Jones Barnes	Herbert Alexander Dargie III
Joseph Bryan Barnett	*Linda Ramelle Darnall
William Monroe Bingham	Mary Ann Diamond
Gerald Anderson Bohannon	Donnis Lee Doyle
Raymon Steven Brooks	Edward Wayne Emmons
*Phillip Bruce, Jr.	Samuel G. Eubanks, Jr.
Patricia Ann Buss	*Ann Gibson Franklin
Paul Conrad Chapman	Ruth Ledbetter Galaz
Vern F. Chumney	Nancy Elizabeth Gary
George Oliver Clark, Jr.	Marilyn Claudette Haire
Wilma Ray Cole	Gilbert Randolph Harding
Jere Anne Coleman	Frances Inez Head

*Cum Laude

**Magna Cum Laude

Howard Columbus Heard, Jr.	James Hurley Myers
Charles Burkhead Herron	Ann Kelley O'Dell
Thomas Wayne Higginbotham	Beulah Boals Palmore
Ruth Hill	John Milton Patrick
Harris Butler Hollingsworth	Charles Thomas Pierotti
Walter Edward Hunt	Robert Earl Pittman
Shirley Evelyene Jackson	Theodore Roosevelt Prater
Paul Lynn James	Mary Jane Price
John N. Jordan	William Harrison Raiford
Joe Edwin Keschull	Dora Kathryn Richison
Robert Lawrence Kennon, Jr.	*George William Robertson
Mary Hill Lawrence	Adrian Woolbert Rosenthal
**Ruth Faye Levenson	Thomas W. Scruggs, Jr.
James Kenyon Lewis	Virginia Ann Sipes
Antonia Libondi	Ronald Edward Spielberger
George Gartley Lipsey	*Alan D. Stephens
Kellie R. Lowe, Jr.	Lynda Pearce Summers
David Wayne MacDonald	Alfred Glenn Swinny
Gloria Gay Peacock Majure	Thomas Edward Talley
Jewell Howard Martin	Nancy Carole Taylor
Joe Thomas McEwen	Shirley Arlene Temple
Joe Page Vernell McGee	Karen Fay Tucker
Martin Sims McKnight	Sherman Edwin Ulmer
William Clinton McMorris	William Lewis Vaughn
Thomas Markley McNair	Carol Ann Wadeking
Robert Thomas Meeks, Jr.	Edward Wesley Walton, Jr.
Elizabeth Moeller	Robert Earl Whaley
Gwendolyn Woods Montague	*Lionel L. Williams
George Harrison Morse	

THE SCHOOL OF BUSINESS ADMINISTRATION

BACHELOR OF BUSINESS ADMINISTRATION

James Robert Adamy	William Oscar Clark
George Robert Arnn	Fred Jerry Colston
Norman Eugene Bitner	Edward Jerome Conrad, Jr.
George Edward Blancett	Robert Ray Cummings
Billy Lee Brown	Rex Marshall Deloach
Jerry Mallory Bullard	Howard Ray Emmons
Charles Thomas Cates	James Luther Ferguson, Jr.
Eugene Fernand Cau	Arthur Lee Fury

*Cum Laude

**Magna Cum Laude

Larry Lee Garber	Harold L. Segerson
Frank Garner, Jr.	William James Shaw, Jr.
Edna Manning Gibson	Cary Eugene Sisco, Jr.
Joseph Allan Hanks	Richard Campbell Smith
Robert Jones Harper, Jr.	Billy Gene Stallings
Michel Crittenden Hopper	Guy Gwyn Stephenson
George Ralph Jones, Jr.	Charles Edwin Stone, Jr.
Gilbert Love Lane, Jr.	William Thomas Tapp
*John Erwan Leflar	Walter Polk Tillman
Thomas Lafayette McLawhorn	Dewitt Tipton, Jr.
William Jeffrey Morris	Frankie Dee Tolley
Robert Raiford Murphy	William Eugene Townsend
David Clifton Perdue	Larry Traywick
Henry C. Pitts, Jr.	Sylvia Claudette Tucker
Wildon Thomas Powell	Thomas Jerry Turner
Gene Reed, Jr.	William Robert Vance
William Rufus Rencher	Robert Gillman Williams, Jr.
Felice Brenner Rosenthal	Robert Rambant Willis, Jr.
Samuel Salky	William David Woodmansee
William Charles Schadrack, Jr.	William Cecil Wright, Jr.
**Leslie S. Scruggs	

THE SCHOOL OF EDUCATION

BACHELOR OF SCIENCE

Linda Ruth Allen	Ruth Demaske Cullen
Mae Ruth Archibald	Dixie Compton Davis
Sue McMillin Ashe	Henry Clifton Davis
Rosa Ella Barker	Alice Josephine Hunt
Wylie Wayne Bingham	Doddridge
Joyce Ruth Bishop	Dorie Doss
*Judith Ann Blucker	Joe Walton Dudley
*Carole Yvonne Bourland	Frank David Easterday
Edith Elisabeth Bray	Mary Ann Eikner
Patricia Ann Breeze	Earlene Stewart Evans
Marilyn Fern Brief	Marian Hicks Freeman
Evelyn Thelma Brockmeier	Betty Goodnight
Sara Draffin Buckley	Allen Sanders Hall
*Peggy Burrow Chester	Hilda Ann Copeland Hannah
James William Cookson	Mary Lucille Haynie
Linda Kay Crocker	Betty Edmiston Hill
*Cum Laude	
**Magna Cum Laude	

Nancy Myers Hollingsworth	Theresa Steuterman Parsons
Doris Glenz Jenkins	Suzanne Polk
*Sandra Ann Keathley	Faye Pulliam
Linda Paulette Keck	Linda Helen Richey
Janice Carol Lady	*Linda Sue Seaton
Janet Camille Langford	**Elizabeth Norris Shannon
Nancy Bloom Lieberman	Dorothy I. McKie Simmons
Beverly Morrison Lott	Mary Henderson Street
Bobbie Pugh Lovelace	R. Wesley Tanner
Marilyn Freeman McGinness	*Margaret Gordon Taylor
Doris Ethridge Miller	James Lewis Underhill
Myrna Louise Montgomery	June Hull Unger
Syd Vaughan Mullins	*Joanne Wooten Vaughan
MaryWilliePhillipsMurdaugh	Lorna Gene Wilson
Nancy Safley Newman	Nancy Sue Clinton Wooten

THE DEPARTMENT OF INDUSTRIAL ARTS

BACHELOR OF SCIENCE

Alvin Delano Asbridge	James Thomas Mellard
William Spicer Crawford	Clinton Antoine Nichols
Daniel Gregory Graham	Wilbur Proctor Odle
Mitchell La Rue Herron	Don Farrar Whitlock
Albert Jimmy Jarratt	John Martin Wright
Charles William Knight	Donald Louis Zlotky

THE GRADUATE SCHOOL

MASTER OF ARTS DEGREES

Ernest B. Abron	Elizabeth Allen
B.S., 1942, LeMoyne College	B.M., 1952, St. Louis Institute of Music
Mary Chimane Adams	Helen Armitage Allen
B.S., 1960, Memphis State University	B.A., 1946, University of Tennessee
Sally Antoinette Adams	Nannie Ruth Allen
B.B.A., 1961, Memphis State University	B.M., 1948, St. Louis Institute of Music
Grant Noble Aldridge	
B.A., 1958, Central Bible Institute	

*Cum Laude

**Magna Cum Laude

- Patricia Ann Allen
B.A., 1958, Memphis State
University
- Jerry David Alsup
B.S., 1960, Memphis State
University
- Gene J. Ament
B.S., 1949, Memphis State
University
- Joe Harold Anders
B.S., 1959, Memphis State
University
- Bennie Marshall Batts
B.A., 1947, Tennessee A & I
State Univ.
- Samuel E. Beaty
B.S., 1957, Memphis State
University
- William A. Bickers
B.S., 1951, Memphis State
University
- Nancy Jane Billett
B.B.A., 1962, Memphis State
University
- Mary Anne Allison Blackford
B.S., 1962, Memphis State
University
- Dolores Jean Bodry
B.S.E., 1959, Memphis State
University
- Clydene Neely Booth
B.A., 1958, Memphis State
University
- James Gothard Brooks, Jr.
B.S., 1952, University of
Tennessee
- Arthur M. Browder, Jr.
B.S., 1957, Memphis State
University
- Max Denton Browder
B.S., 1957, Memphis State
University
- James A. Brown
B.S., 1955, Memphis State
University
- Allan Carter Browning, Jr.
B.S., 1955, Mississippi State
College
- Jane Fletcher Burch
A.B., 1943, George Washington
University
- Bernice H. Burns
B.A., 1947, University of
Arkansas
- Richard Graves Cain
B.S., 1961, Memphis State
University
- Mary Louise Ridpath Carver
B.S., 1960, Southwest Missouri
State College
- Linda Claire Conyers
B.S., 1961, Memphis State
University
- George Washington Cox
B.S., 1957, LeMoyne College
- Beverly Wolfe Crawford
B.S., 1961, Delta State College
- Frank Andrew Davis Jr.
B.S., 1950, LeMoyne College
- Wooldridge W. Davis
B.A., 1956, University of the
South
- Louise Beverly Dickerson
B.S.E., 1929, Arkansas State
Teachers College
- Jo Downey
B.S., 1961, Memphis State
University
- Donald Duttenhoeffer
B.S., 1958, Memphis State
University
- Donna Elizabeth Eddins
B.S., 1959, Memphis State
University

- Margaret Ford Evans
 B.S., 1954, Murray State College
 Barbara Nelle Ewell
 B.S., 1962, Memphis State University
 Andrea Cross Farrow
 B.S., 1961, Memphis State University
 Charles Prickett Foster
 B.S.E., 1958, Henderson State Teachers College
 Naomi Jane Fowler
 B.S., 1938, University of Tennessee
 Dorothy Watson Fowlston
 B.A., 1938, Smith College
 Lynette Friedman
 B.S., 1957, University of Maryland
 Marjorie Lou Giles
 B.S., 1961, Memphis State University
 Dean C. Golden
 B.A., 1962, Memphis State University
 Charles Richard Goodpasture
 A.B., 1942, University of Illinois
 Robert Barris Gould
 B.S., 1959, University of Tennessee
 Richard D. Guynn
 B.S., 1960, Virginia Polytechnic Institute
 Martha Cottrell Hammett
 B.A., 1957, Union University
 Geraldine Bledsoe Harris
 B.S., 1952, LeMoyne University
 Carmen Roper Hatchett
 B.A., 1949, Southwestern at Memphis
 Betty Joyce Hendon
 B.A., 1956, George Peabody College for Teachers
 William Bruce Holliman
 B.A., 1962, Memphis State University
 Helen Neely Humphreys
 B.S., 1930, Memphis State University
 Rebecca Trezevant Hutter
 A.B., 1937, Vassar College
 James Sweed Ingram
 B.S., 1959, Memphis State University
 Ada Barber Jackson
 B.S., 1951, LeMoyne College
 James Hoyt Jobe
 B.S.E., 1954, Southern State College
 Addie Brown Jones
 B.S., 1960, Rust College
 Bettie Connally Jones
 B.A., 1949, Southwestern At Memphis
 Ellis M. Jones, Jr.
 B.S., 1958, Syracuse University
 Maurice Jones
 B.S.E., 1959, Arkansas State College
 Riley Marion Jones
 A.B., 1951, Union University
 Nora Jane Kelly
 B.A., 1957, Union University
 Harold Frederick Krueger
 B.S., 1962, Memphis State University
 Lois Howry Larry
 B.A., 1955, LeMoyne University
 Elwood Nicholas LeBouef
 B.S., 1961, Memphis State University
 Jane Griffin McGinnis
 B.A., 1957, Blue Mountain College

- Laura Anne McGowan
B.A., 1958, Baylor University
- Mrs. Elizabeth Parker Martin
B.S., 1948, LeMoyne College
- Marjorie Harvey Morgan
B.A., 1939, University of Mississippi
- Hilda Chase Mullen
B.S., 1955, Memphis State University
- Jerry Wayne Murphy
B.S., 1960, Memphis State University
- Kittie Davis Nowlin
B.S., 1952, Memphis State University
- Gordon Kendall Pafford
B.S., 1960, University of Tennessee
- Lewis Hollomon Parks
B.A., 1926, Bethel College
- Aubrey Ted Parrish
B.S., 1960, Memphis State University
- Floriene (Jo) Patterson
B.S., 1960, Memphis State University
- Martha Morris Peal
B.S.E., 1950, University of Tennessee
- Ernestine Wilson Peoples
B.S., 1953, LeMoyne College
- Evin L. Perdue
B.S., 1949, Southwestern at Memphis
- Genevieve Caldwell Phillips
B.S., 1957, Memphis State University
- Joe G. Phillips
B.A., 1957, Memphis State University
- Beverly Ann Dabb Phipps
B.S., 1953, University of Mississippi
- Almarie Sowell Piercey
B.S., 1960, Bethel College
- Grace Elizabeth Prescott
B.S., 1960, Memphis State University
- George Aaron Price
B.S., 1960, Memphis State University
- Marshall F. Priest, Jr.
B.A., 1940; LL.B., 1941, Univ. of Tennessee
- J. Stanford Pruett
B.S., 1960, Memphis State University
- Hollis A. Purtle
A.B., 1941, Ouachita Baptist College
- James R. Rawls
B.A., 1958, Stetson University
- James Franklin Reid
B.S., 1953, Lambuth; LL.B. 1959, University of Tennessee
- James Leslie Rhodes
B.S., 1958, Memphis State University
- Floyd B. Roberts
B.E., 1934, Tulane University
- Robert D. Ryan
B.S., 1951, Christian Brothers College
- Margaret S. Scarborough
B.S., 1959, Bethel College
- Sue Ann Schlosser
B.A., 1960, Siena College
- Allen Y. Searcy
B.S., 1950, Tennessee A & I State University

William Rodrick Sewell B.S., 1961, Memphis State University	Margaret Jewel A. Tidwell B.S., 1953, Memphis State University
Hugh Robert Shuttleworth B.A., 1952, Muskingum College	Pansy Bush Trenor B.S., 1930, Memphis State University
Harbans Singh B.A., 1952; M.A., 1954, Poujah University; M.S., 1957, George William College; Ph.D., 1961, New York University	Maxine Numa Tuggle B.S., 1961, Memphis State University
Jerry Brown Smith B.S., 1950, Union University	Mary Alice Parsons Turner B.S., 1960, Memphis State University
William Harry Smith B.S.E., 1933, Arkansas State College	Walter F. Wacht, Jr. B.S.E., 1962, Indiana State College
Ann Jones Stamm B.S., 1960, Memphis State University	LaNell Watkins Wade B.S.E., 1961, Arkansas State Teachers College
Lodema M. Stanfield B.S., 1947, University of Tennessee	Lucille McGehee Wallis B.S., 1958, Memphis State University
Billy Wayne Starnes B.S., 1957, Memphis State University	Frank Emile Woodward B.S., 1957, Memphis State University
Vaughn Elden Stimbert B.S., 1951, Memphis State University	William H. Yokel A.B., 1955, Evansville College
William Martin Suggs B.S., 1961, Tennessee A & I State University	Charles Robert Young B.S., 1956, Bethel College
	Joan Harris Zurhellen A.B., 1953, Columbia University

DEPARTMENT OF AIR SCIENCE

AFROTC DETACHMENT NR 785

CANDIDATES FOR AIR FORCE COMMISSIONS

Edward Jerome Conrad, Jr.	Clinton Antoine Nichols
Mitchell Larue Herron	Donald Louis Zlotky

DEAN'S LIST

For requirements, see page 88

FALL SEMESTER, 1962-63

- | | |
|--------------------------------|-------------------------------|
| Adams, Paul Donovan | Keough, Harriet Ann |
| Aizenshtat, Sylvia | King, Louis Douglass |
| Alexander, Judith Dell | Knight, Lawrence Lester |
| Alexander, Rose Marie | Koch, Susan Louise |
| Allen, Carolyn Jones | Koeller, Kay Lynn |
| *Anderson, Fleda Bell | Leach, Carolyn Rebecca |
| Archer, Linda June | Lendermon, Bonnie Rae |
| Barkley, Leah Gail | Leonard, Lora Lea |
| Belz, Saul Charles | Little, John Phelan |
| Betty, Shirley Ann | *Lochridge, Annetta Sue |
| Black, Charles Gary | Lockhart, Louise E. Ferguson |
| *Boone, Barbara Jean | Long, Janice Bell |
| Bricks, Bernard G. | Lorenzen, Linda Faye |
| Brothers, Jacqueline | Mahaffey, Martha Kate |
| Bush, Donna Katherine Epes | Marlow, Beth Ivy Marchant |
| *Cabler, Cherry Joyce | Martin, Shari Ann |
| Caldwell, Carol Ann | *Matlock, Betty Jean |
| Casey, James Oswale | *Mayo, Grace Maxine |
| Castellaw, Betty Lou Johnston | McEnaney, Francis Gregory |
| Clements, Donald Scott | McLean, Dorothy Jean |
| Coleman, Joy Cathey Slaughter | Mendelson, Paul Irvin |
| Corey, Anna Belle | Monger, Samuel Arthur III |
| *Couch, Eddie Mae A. Wadsworth | Mothershed, Virginia |
| Davidson, Lee Anthony | Newman, Charlene |
| Dotson, Gloria Jean | Overall, Camille |
| Dudley, Sandra Grace | Pate, Edith Joyce |
| Edwards, Ralph Cagle | Pierce, Alla Elizabeth |
| Evers, Jimmie William | Pittman, Sandra Jean |
| *Fortune, Herman Terry | *Powell, Rose Alayne Drotor |
| Franklin, Sandra Lee Hall | Preissig, Patricia Ann |
| Frazier, Phyllis Ann | Pryor, Mildred Lorette Golden |
| *Haire, Craig Michael | Pullen, Frances Kaye |
| Haire, Phyllis Earline Whalen | Rowland, Geraldine |
| Hamilton, John Stephen | Roy, Carol Ann |
| Harrell, James Dallas | Sarvis, Pauline M. G. |
| Herndon, Virgie Lee | Schomp, William George |
| Hindmon, Ruby Jewel Dixon | Scruggs, Leslie Scales |
| Hollis, William Joseph | Shannon, Sara Elizabeth |
| Holloway, Sue Claire | Siniard, Lois Arnold |
| Hughes, Kendall Sechler | Skaller, Joy Rosanne |
| Hume, Joseph Franklin | Smith, Barbara Catherine |
| Hundley, Donald Ray | Smith, Gail Elizabeth |
| Hutchins, Charles Edward | Smith, Margaret Alice Pate |
| *Johnson, Carol Joy | Smith, Venita |
| Kahn, Robert Nathan | Spruce, Georganne |
| *All grades A | |

Staples, Linda Carol	Van Vlack, Russell Raymond
*Stephens, Rosemary Carswell	Wall, Alice Ann
Stewart, Elizabeth Kay	*Watts, Kathleen Inez
Swift, Karen Gail	Webb, Holly Godwin
Tansey, James Nicholas	*Wheeler, Pamela
Tarver, Sharon Anniece	White, Nancy Helen
Thompson, Martha Ann	Williams, Sandra Diane
Trout, Cecelia Mae	Wimberly, Norma Eulalie
Underwood, William Lee II	Wray, Joyce Ann

DEAN'S LIST

For requirements, see page 88

SPRING SEMESTER, 1963

Aizenshtat, Wynne	*Fortune, Herman Terry
Alexander, Judith Dell	*Franklin, Sandra Lee Hall
*Alexander, Rose Marie	Fruhman, Barton Leroy
Aste, Mary Louise	Gauldin, Jane Ridens
Austin, Diane Rebecca	Gibson, Edna Lou Manning
Barger, William Thomas	Glass, Martha Jo
Barrett, Charles Francis	Greenfield, Jane Robyn
*Baskin, Reed Carl	Guess, Emily Quay
Bass, Jimie Lynn	Guess, Zack Meaders
*Binkley, Linda Gail	Haire, Craig Michael
Bourland, Betty Lou Stoker	Haire, Rex Patrick
Boyd, Doris Ann Godwin	Hall, Allen Sanders
Bricks, Bernard Gerard	Hathorne, Sandra Jo
Brittain, Julia Eve	Hays, Carole Anne
Brooks, Leslie Vernie Jr.	Herndon, Virgie Lee
Bruce, Phillip Jr.	Hight, James Alexander Jr,
Carruthers, Sally Hinton Kosloski	*Hollis, William Joseph
Casey, James Oswale Jr.	Huffman, Barbara ean
*Chappell, James Edwin	*Hundley, Donald Ray
Clark, Irene Sue	Hurst, Harold Newman
Clements, Donald Scott	Jackson, Robert Holland
Corey, Annabelle Vernon	Johnson, James Richard
*Couch, Eddie Mae Wadsworth	Kelly, Mary Lillian Taylor
Cox, Virginia Rose Watson	Key, Vera Camille
Davis, Dixie Charlene Compton	King, Louis Douglass
Davis, Walter Lee Jr.	King, Winfred Thomas
*DeLoach, Rex Marshall	Knight, Lawrence Lester
Dobbs, Carolyn Elizabeth	Koeller, Kay Lynn
Doss, Judith, Sandra	Lawrimore, Rebecca Ann
*Dudley, Sandra Grace	Lendermon, Bonnie Rae
Edwards, Ralph Cagle	Leslie, Merrill Ann
Epstein, Nancy Diane	Lockhart, Louise E. Ferguson
*Essary, Mary Carla	*Marlow, Beth Ivy Marchant
Evers, Jimmie William	*Matheny, Hermena McPherson
*All grades A	

- *Mayo, Grace Maxine
McEnaney, Francis Gregory
McLellan, Linda Louise
Miller, Eva May
Mothershed, Virginia Wall
Overall, Camille
Padgett, Mary Sue
Patterson, Jimmy Earl
Peterson, Elizabeth Ann Fiser
Pittman, Sandra Jean
Price, Lyman Nelson
*Pryor, Mildred Lorette Golden
Rafferty, Rosalyn A.
Raifsnider, Brenda Lou
Robbins, Charles Neil
Robbins, Kitty Delle
Rochelle, Jack Pennington
Rogers, Margaret Ann
Rose, Amy Elizabeth
Rye, Robert Ray
*Schmidt, Moina Louise Stalcup
Schomp, William George
Scruggs, Leslie Scales
Seaton, Linda Sue
Shannon, Sarah Elizabeth Norris
Shapple, William Vance Jr.
Slover, Mary Ann
Smith, Penelope Irene
Smith, Venita
Spielberger, Ronald Edward
Staples, Linda Carol
Stephenson, Diane
Stein, Margo Ellen
Stewart, Elizabeth Kay
Swift, Karen Gail
Tarver, Sharon Anniece
Taylor, Ann Marie
Theos, Frances Kathryn Maus
*Thompson, Martha Anne
Van Eaton, Charles David
Van Sandt, Joli Carolyn
Vaughan, Sara Joanne Wooten
Walker, Julia Ann
Walsh, Virginia Carol
Warrington, Mary Alice
Wheeler, Pamela
*White, Nancy Helen
Whitlock, Sandra Shaw Henson
*Wilkes, Bendell Blain
Wong, Yam Suen
Worley, Barbara Lee Delugach
Worthington, Diane
Wray, Joyce Ann
*Yates, Albert Carl
Yow, Melvin Elmer Jr.

HONOR ROLL

FALL SEMESTER 1962-63

For requirements, see page 88

<i>Honor Points</i>	<i>Honor Points</i>
Mayo, Grace Maxine210	Couch, Eddie M. Wadsworth150
Hughes, Kendall J. Sechler200	Davis, Dixie Charlene Compton 150
Haire, Craig Michael190	Hannah, Hilda Ann150
Hindmon, Ruby Jewel Dixon ..185	Kelley, Kay Elayne150
Casey, James Oswale180	Lendermon, Bonnie Rae150
Johnson, Carol Joy180	Libondi, Antonia150
Matlock, Betty Jean180	Long, Janice Bell150
Powell, Rose Alayne Drotor180	Mahaffey, Martha Kate150
Stephens, Rosemary Carswell180	Pate, Edith Joyce150
Wheeler, Pamela180	Skaller, Joy Rosanne150
Shannon, Sarah Elizabeth175	Swift, Karen Gail150
Hume, Joseph Franklin170	Tansey, James Nicholas150
Lockridge, Annetta Sue170	Tansey, Marian Lucille150
Robbins, Kittye Dell170	Underwood, William Lee II150
Williams, Mary Ann170	Willis, Franklin Virgil150
Archer, Linda June165	Betty, Shirley Ann145
Barkley, Leah Gail165	Climer, Linda Jo145
Davidson, Lee Anthony165	Collins, Gail Elizabeth145
Dudley, Sandra Grace165	Keough, Harriet Ann145
Hundley, Donald Ray165	Koch, Susan Louise145
Hutchins, Charles Edward165	Preissig, Patricia Ann145
Schomp, William George165	Scruggs, Leslie Scales145
Stewart, Elizabeth Kay165	Smith, Gail Elizabeth145
Walsh, Virginia Carol165	Staples, Linda Carol145
Boone, Barbara Jean160	Thompson, Martha Ann145
Evers, Jimmie William160	Trout, Cecelia Mae145
Fortune, Herman Terry160	Wall, Alice Ann145
Pierce, Alla Elizabeth160	Webb, Holly Godwin145
Rafferty, Rosalyn Ann160	Alexander, Rose Marie140
Rowland, Geraldine160	Belz, Saul Charles140
Watts, Kathleen Inez160	Bush, Donna Katherine Epes140
Brothers, Jacqueline155	Dotson, Gloria Jean140
Corey, Annabelle Vernon155	Franklin, Sandra Lee Hall140
Gantt, Briane155	Larson, Jean Ellen140
Haire, Phyllis E. Whalin155	Lawler, Caroline Kaye140
Herndon, Virgie Lee155	Leach, Carolyn Rebecca140
Knight, Lawrence Lester155	Lockhart, Louise Ferguson140
Koeller, Kay Lynn155	McPheeters, Scotty140
Schulz, Janet Ann155	Mendelson, Paul Irvin140
Spruce, Georganne155	Overall, Camille140
Anderson, Fleda Bell150	Pullen, Frances Kaye140
Black, Charles Gary150	Smith, Barbara Catherine140
Cabler, Cherry Joyce150	Worthington, Diane140
Clements, Donald Scott150	Bastnagel, Georgia Anne135

	<i>Honor Points</i>		<i>Honor Points</i>
Blount, Sandra Lynn	135	Smith, Venita	130
Boales, Glenna Anne	135	Van Vlack, Russell Raymond	130
Bramblett, Joseph Marion Jr.	135	Wilkinson, Lynda Lee	130
Brown, Lucille B. Wilson	135	Binkley, Linda Gail	125
Butler, Dorcas Joan	135	Boudreaux, Carolyn Ann	125
Coleman, Bama Gail	135	Bourland, Robert Leon Jr.	125
Coleman, Joy Slaughter	135	Byrom, Charlotte Ann	125
Cox, Virginia Rose Watson	135	Edwards, John Howard	125
Davis, Henry Clifton	135	Embry, Wallace Abner	125
Edwards, Ralph Cagle	135	Hight, James Alex	125
Embree, Edward Y.	135	Overall, Martha Russell	125
Gray, Fay Beth	135	Owens, Ida White	125
Hamilton, John Stephen	135	Rogers, Linda Diane	125
Hardison, Susan Shuptrine	135	Rosen, Rochelle Lynn	125
Holloway, Sue Claire	135	Rye, Robert Ray	125
Kahn, Robert Nathan	135	Schmidt, David Fredrick	125
Key, Vera Camille	135	Smith, Bonnie Beth	125
King, Louis Douglass	135	Taylor, Ann Marie	125
Langham, Ann Marie	135	Tucker, Sheryl Frances	125
Leonard, Lora Lea	135	Weir, Carole Luise	125
Little, John Phelan	135	Adams, Paul Donovan	120
Marlow, Beth Ivy	135	Aizenshtat, Sylvia	120
Massey, Sheila Jane	135	Aizenshtat, Wynne	120
McEnaney, Francis Gregory	135	Alexander, Judith Dell	120
McLean, Dorothy Jean	135	Allen, Carolyn Jones	120
McLellan, Linda Louise	135	Baggett, Millard Frank	120
Miller, Eva May	135	Barfield, Mary Fay	120
Mitchell, George W. III	135	Batiste, Richard Dominick Jr.	120
Monger, Samuel A. III	135	Blackard, Hugh Wayne	120
Morgan, Robert Edward Lee	135	Brindley, Edward Jr.	120
Nave, Paul Michael	135	Brittain, Julia Eve	120
Newman, Charlene	135	Bruton, Shelby Glenn	120
Plaisance, Rene Lois	135	Burke, Martha Ellen	120
Pryor, Mildred Golden	135	Caldwell, Carol Ann	120
Raifsnider, Brenda Lou	135	Castellaw, Betty Johnston	120
Ramsey, Frances Elizabeth	135	Clark, Lynda Lee	120
Rudder, Cynthia Sue	135	Clemmons, Corinne Jane	120
Speltz, Susan Adele	135	Cooper, Joan	120
Tarver, Sharon Anniece	135	Evans, Leslie Wayne	120
Williams, Sandra Diane	135	Frazier, Phyllis Ann	120
Wray, Joyce Ann	135	Glass, Martha Jo	120
Blockman, Jerome	130	Guess, Zack Meaders	120
Bricks, Bernard Gerald	130	Herron, John Edward	120
Brown, Martin William	130	Hill, Leslie Brooks	120
Harmer, Barbara Anne	130	Horvath, Pamela Lou	120
Harrell, James Dallas	130	Huffman, Barbara Jean	120
Hollis, William Joseph	130	Jackson, Robert Holland	120
Lange, Linda Lou	130	Johnson, James Richard	120
Martin, Shari Ann	130	Jordan, Martha Lynn	120
Mitchell, William Thomas	130	Leipold, Robert Davidson	120
Pittman, Sandra Jean	130	Lemm, Mary Elouise	120
Robbins, Charles Neil	130	Lewis, James Kenyon	120

<i>Honor Points</i>	<i>Honor Points</i>
McGregor, Sarah Amma120	Carey, Dorothy Helen Sharpe115
Martin, Jewell Howard120	Carruthers, Sally Kosloski115
Moffatt, John Michael120	Dexter, Sara Kerr115
O'Donnell, Margaret Gail120	Doss, Judith Sandra115
O'Haver, George Barinds Jr.120	Eakin, Marilyn Jean115
O'Neil, Jane Frances120	Ferguson, Shirley Ann115
Ortiz, Ynacio120	Flowers, Bobby Franklin115
Phillips, Margaret Anne120	Gardner, John Harvey115
Pollak, Susan Eva120	Gatlin, Virginia Hicks115
Reece, Gloria Ann120	Gauldin, Jane Ridens115
Roy, Carol Ann120	Guess, Emily Quay115
Sarvis, Pauline M. Stalcup120	Hall, Allen Sanders115
Schmidt, Moine Louise120	Harwood, Sharon Elizabeth115
Simmons, Frances Teresa120	Hearington, Janelle115
Siniard, Lois Arnold120	Hollingsworth, Harris Butler115
Smith, Margaret Alice Pate120	James, Sarah Lydia Leech115
Stern, Margo Ellen120	Lorenzen, Linda Faye115
Thompson, Sarah E. Lindsey120	Massengill, Bobby Eugene115
Trotter, Richard Edward120	McDow, Robert Simpson115
Webb, Carolyn Faye120	Miller, Candace Warren115
Wheeler, Dorris Elaine120	Morgan, Charles Grady115
White, Nancy Helen120	Mothershed, Virginia Wall115
Wimberly, Norma Eulalie120	North, Jeanne Carolyn Strickler 115
Yates, Jenny Lee120	Rutschman, Judith Carol115
Austin, Donald Murray115	Simmons, James Michael115
Birchfield, Charlotte Ann115	Wong, Yam Suen115
Brown, Brenda Kay115	

HONOR ROLL

For requirements, see page 88

SPRING SEMESTER, 1963

Marlow, Beth Ivy M.210	Pryor, Mildred L. Golden180
Mayo, Grace Maxine210	Schmidt, Moina Stalcup180
Fortune, Herman Terry200	Yates, Albert Carl180
Swift, Karen G.195	Bruce, Phillip Jr.175
Walsh, Virginia C.195	Epstein, Nancy D.175
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